

TRIAC (ISOLATED TYPE)

TMG5C60F

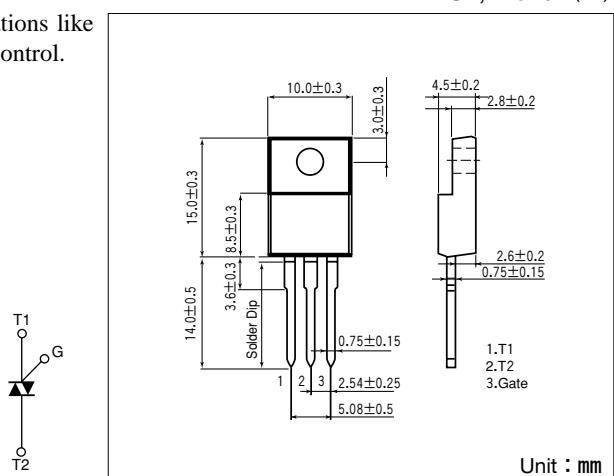
TOP



UL;E76102 (M)

TMG5C40/60F are isolated mold triac suitable for wide range of applications like copier, microwave oven, solid state switch, motor control, light and heater control.

- $I_T(\text{RMS})$ 5A
- High surge capability 55A
- Full molded isolated type



Unit : mm

■ Maximum Ratings

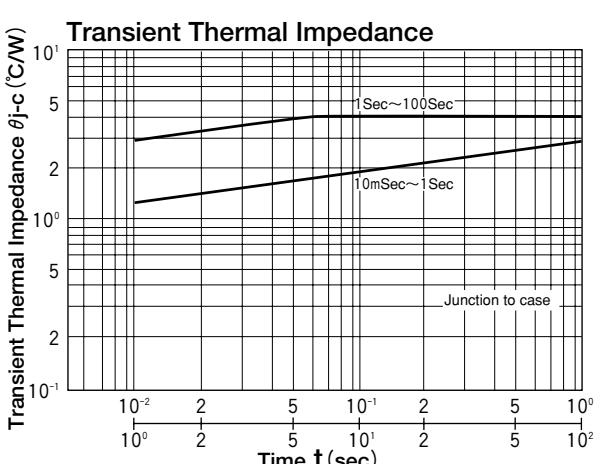
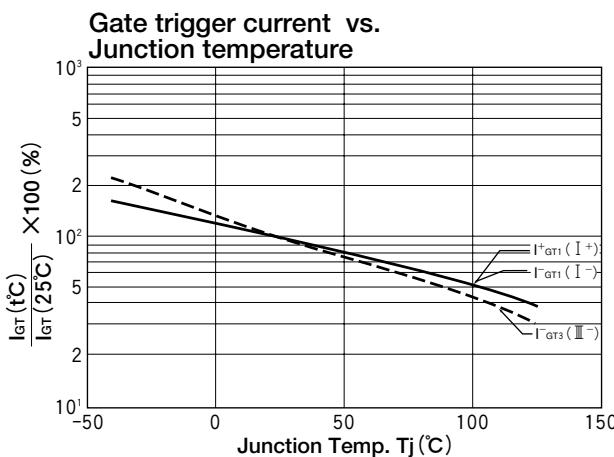
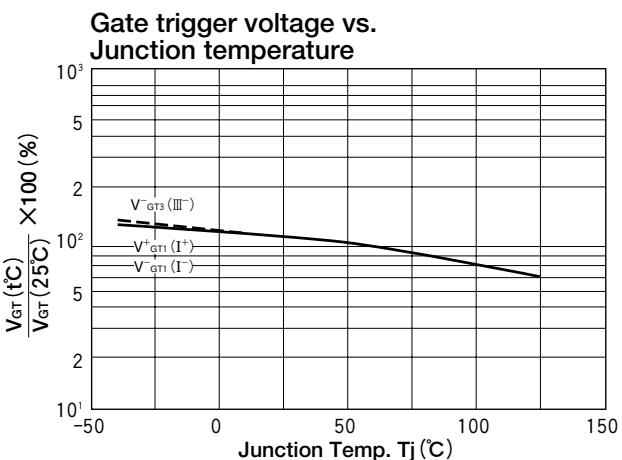
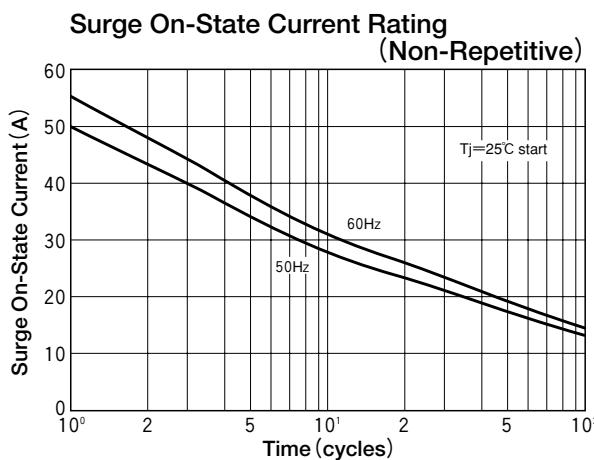
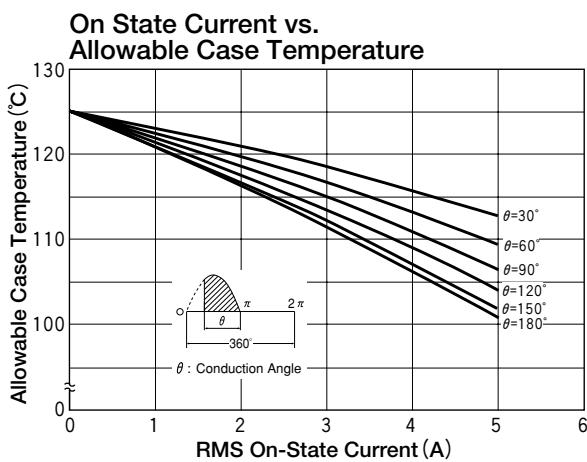
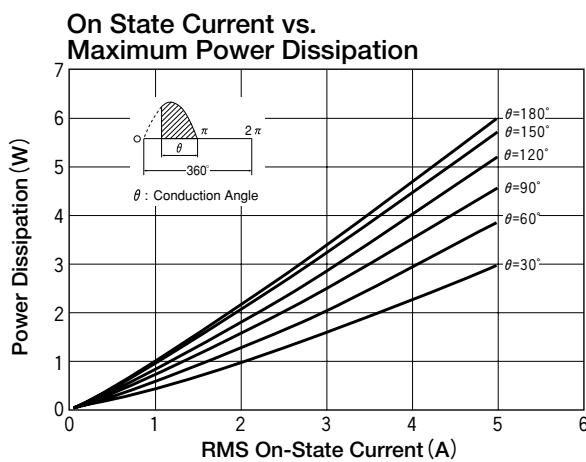
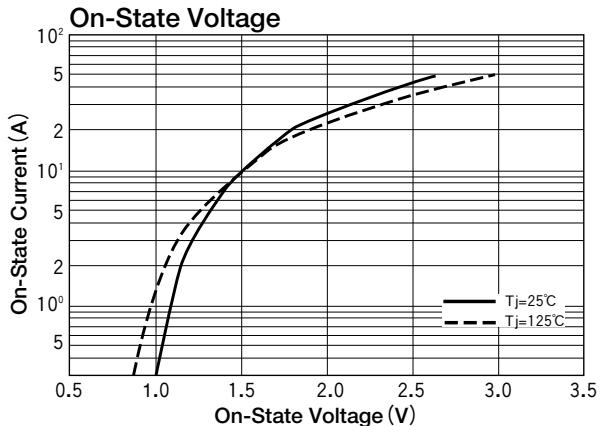
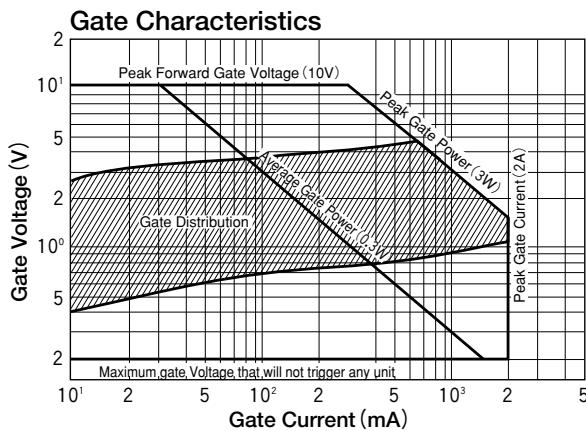
($T_j=25^\circ\text{C}$ unless otherwise specified)

Symbol	Item	Ratings		Unit
		TMG5C40F	TMG5C60F	
V_{DRM}	Repetitive Peak Off-State Voltage	400	600	V

Symbol	Item	Conditions	Ratings	Unit
$I_T(\text{RMS})$	R.M.S. On-State Current	$T_c=100^\circ\text{C}$	5	A
I_{TSM}	Surge On-State Current	One cycle, 50Hz/60Hz, peak, non-repetitive	50/55	A
I^2t	I^2t		12.6	A^2s
P_{GM}	Peak Gate Power Dissipation		3	W
$P_{G(AV)}$	Average Gate Power Dissipation		0.3	W
I_{GM}	Peak Gate Current		2	A
V_{GM}	Peak Gate Voltage		10	V
V_{ISO}	Isolation Breakdown Voltage (R.M.S.)	A.C. 1 minute	1500	V
T_j	Operating Junction Temperature		-40 to +125	$^\circ\text{C}$
T_{stg}	Storage Temperature		-40 to +125	$^\circ\text{C}$
	Mass		2	g

■ Electrical Characteristics

Symbol	Item	Conditions	Ratings			Unit
			Min.	Typ.	Max.	
I_{DRM}	Repetitive Peak Off-State Current	$V_D=V_{DRM}$, Single phase, half wave, $T_j=125^\circ\text{C}$			1	mA
V_{TM}	Peak On-State Voltage	$I_T=7\text{A}$, Inst. measurement			1.4	V
I_{GT1}^+ 1	Gate Trigger Current	$V_D=6\text{V}$, $R_L=10\Omega$			20	mA
I_{GT1}^- 2					20	
I_{GT3}^+ 3					—	
I_{GT3}^- 4					20	
V_{GT1}^+ 1	Gate Trigger Voltage	$V_D=6\text{V}$, $R_L=10\Omega$			1.5	V
V_{GT1}^- 2					1.5	
V_{GT3}^+ 3					—	
V_{GT3}^- 4					1.5	
V_{GD}	Non-Trigger Gate Voltage	$T_j=125^\circ\text{C}$, $V_D=\frac{1}{2}V_{DRM}$	0.2			V
$(dv/dt)_c$	Critical Rate of Rise off-State Voltage at commutation	$T_j=125^\circ\text{C}$, $(dv/dt)_c=-2.5\text{A}/\text{ms}$, $V_D=\frac{2}{3}V_{DRM}$	5			$\text{V}/\mu\text{s}$
I_H	Holding Current			10		mA
$R_{th(j-c)}$	Thermal Impedance	Junction to case			4.0	$^\circ\text{C}/\text{W}$



TRIAC (ISOLATED TYPE)

TMG8C60F

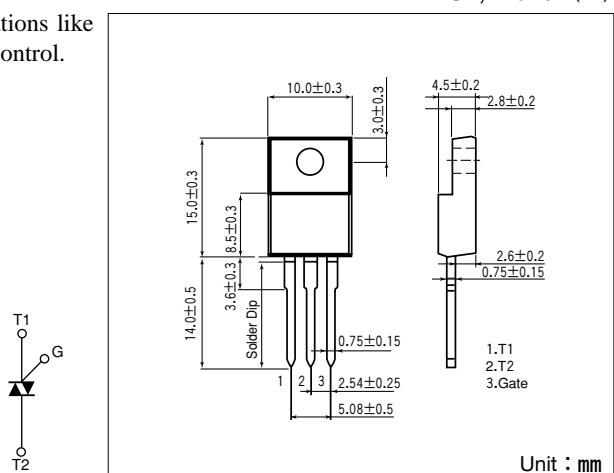
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UL;E76102 (M)

TMG8C40/60F are isolated mold triac suitable for wide range of applications like copier, microwave oven, solid state switch, motor control, light and heater control.

- $I_T(\text{RMS})$ 8A
- High surge capability 88A
- Full molded isolated type



Unit : mm

■ Maximum Ratings

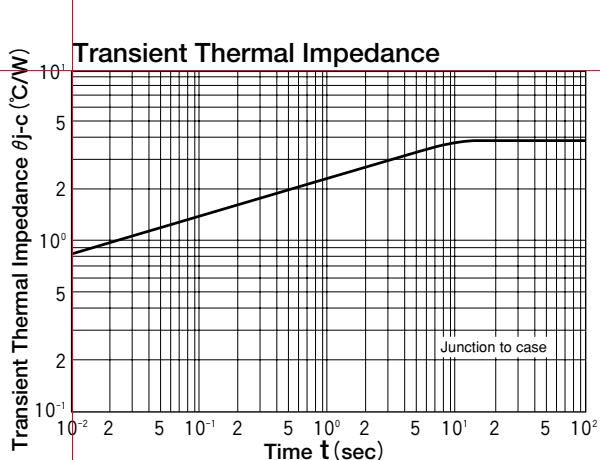
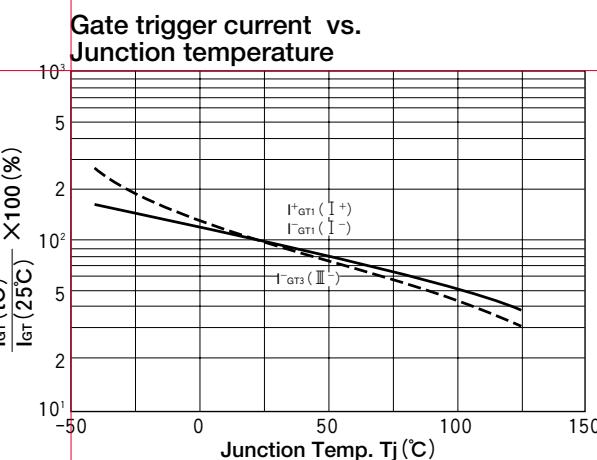
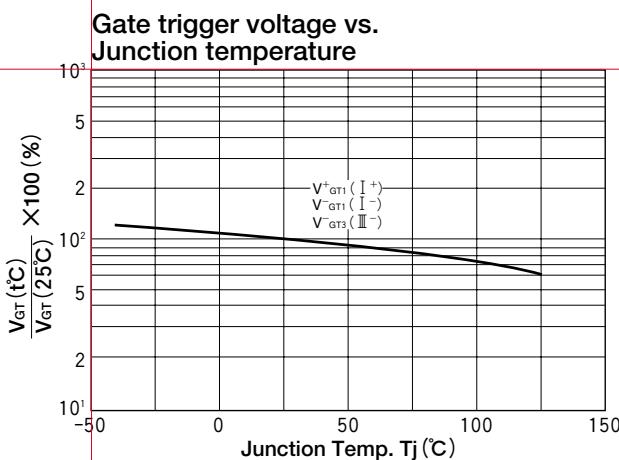
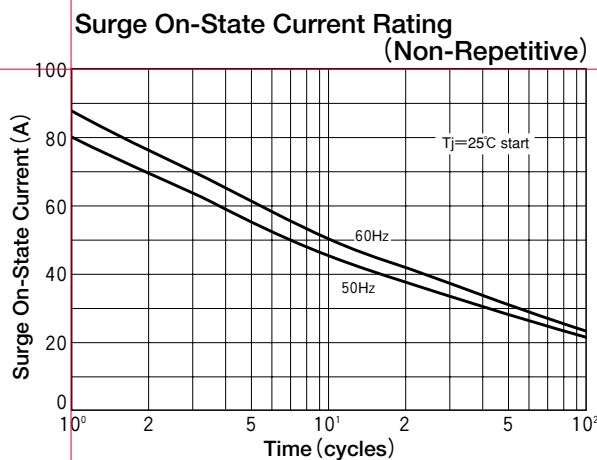
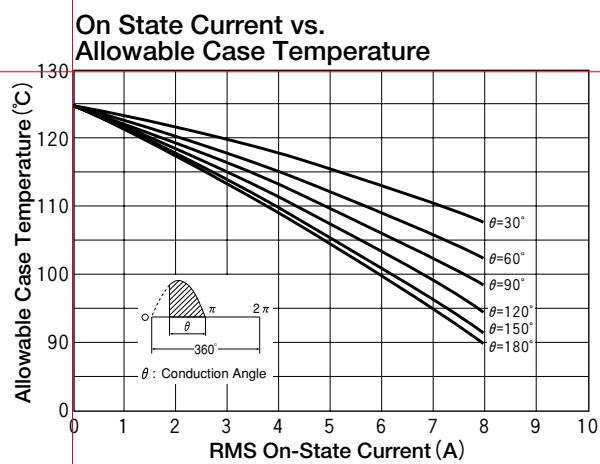
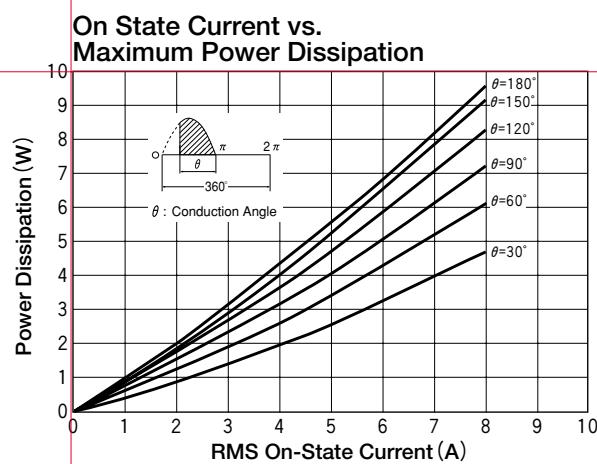
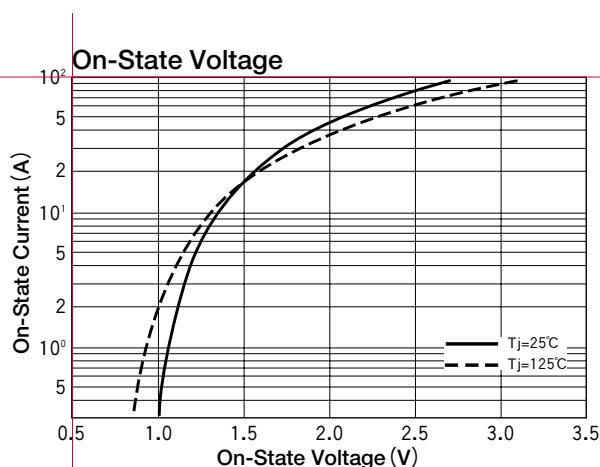
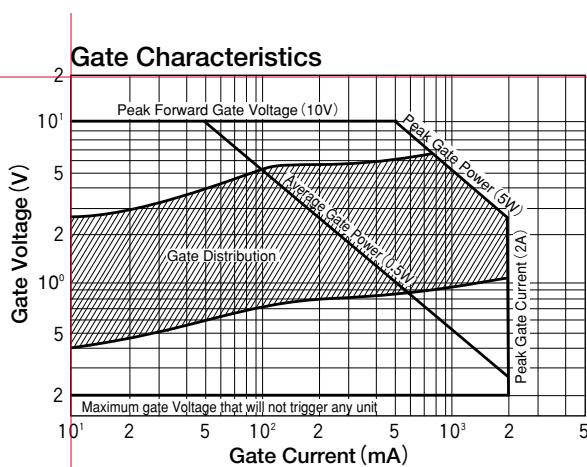
($T_j=25^\circ\text{C}$ unless otherwise specified)

Symbol	Item	Ratings		Unit
		TMG8C40F	TMG8C60F	
V_{DRM}	Repetitive Peak Off-State Voltage	400	600	V

Symbol	Item	Conditions	Ratings	Unit
$I_T(\text{RMS})$	R.M.S. On-State Current	$T_c=89^\circ\text{C}$	8	A
I_{TSM}	Surge On-State Current	One cycle, 50Hz/60Hz, peak, non-repetitive	80/88	A
I^2t	I^2t		32	A^2s
P_{GM}	Peak Gate Power Dissipation		5	W
$P_{G(AV)}$	Average Gate Power Dissipation		0.5	W
I_{GM}	Peak Gate Current		2	A
V_{GM}	Peak Gate Voltage		10	V
V_{ISO}	Isolation Breakdown Voltage (R.M.S.)	A.C. 1 minute	1500	V
T_j	Operating Junction Temperature		-40 to +125	$^\circ\text{C}$
T_{stg}	Storage Temperature		-40 to +125	$^\circ\text{C}$
	Mass		2	g

■ Electrical Characteristics

Symbol	Item	Conditions	Ratings			Unit
			Min.	Typ.	Max.	
I_{DRM}	Repetitive Peak Off-State Current	$V_D=V_{DRM}$, Single phase, half wave, $T_j=125^\circ\text{C}$			2	mA
V_{TM}	Peak On-State Voltage	$I_T=12\text{A}$, Inst. measurement			1.4	V
I_{GT1}^+	1	Gate Trigger Current			30	mA
I_{GT1}^-	2				30	
I_{GT3}^+	3				—	
I_{GT3}^-	4				30	
V_{GT1}^+	1	Gate Trigger Voltage			1.5	V
V_{GT1}^-	2				1.5	
V_{GT3}^+	3				—	
V_{GT3}^-	4				1.5	
V_{GD}	Non-Trigger Gate Voltage	$T_j=125^\circ\text{C}$, $V_D=\frac{1}{2}V_{DRM}$	0.2			V
$(dv/dt)_c$	Critical Rate of Rise off-State Voltage at commutation	$T_j=125^\circ\text{C}$, $(di/dt)_c=-4\text{A/ms}$, $V_D=\frac{2}{3}V_{DRM}$	10			$\text{V}/\mu\text{s}$
I_H	Holding Current			15		mA
$R_{th(j-c)}$	Thermal Impedance	Junction to case			3.7	$^\circ\text{C}/\text{W}$



TRIAC (ISOLATED TYPE)

TMG10C60F

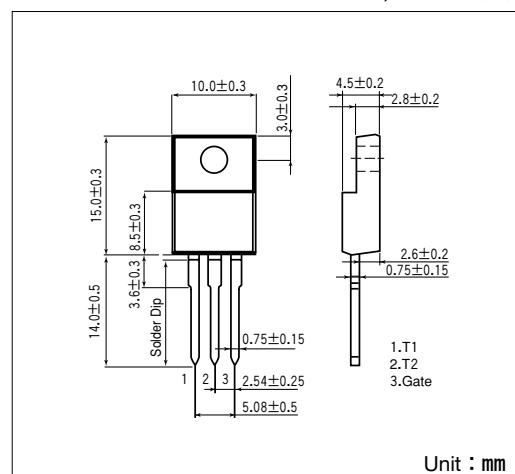
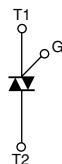
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UL;E76102 (M)

TMG10C40/60F are isolated mold triac suitable for wide range of applications like copier, microwave oven, solid state switch, motor control, light and heater control.

- $I_T(\text{RMS})$ 10A
- High surge capability 110A
- Full molded isolated type
- Three types of lead forming



Unit : mm

■ Maximum Ratings

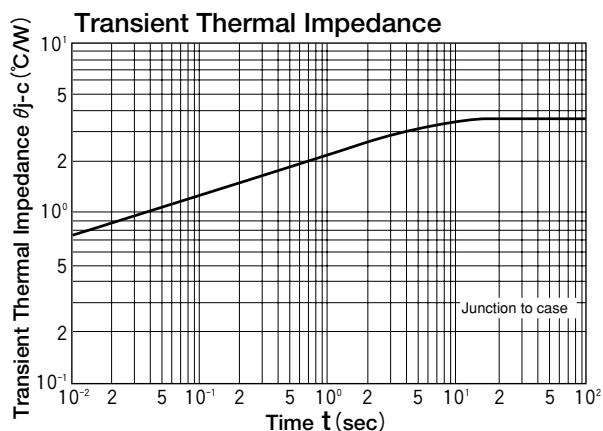
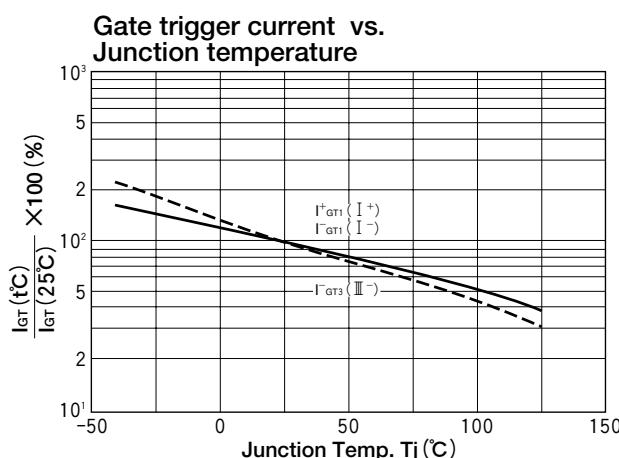
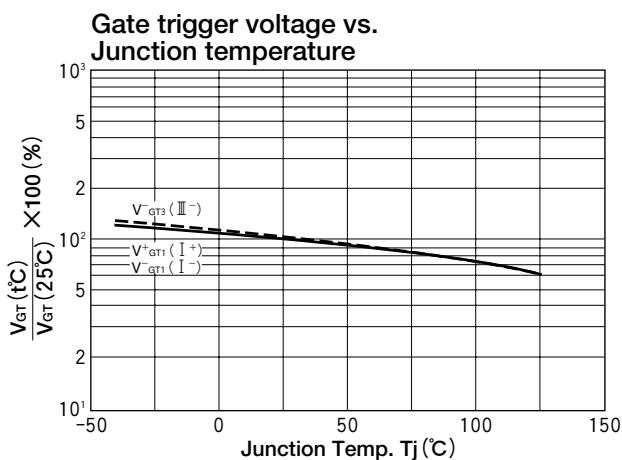
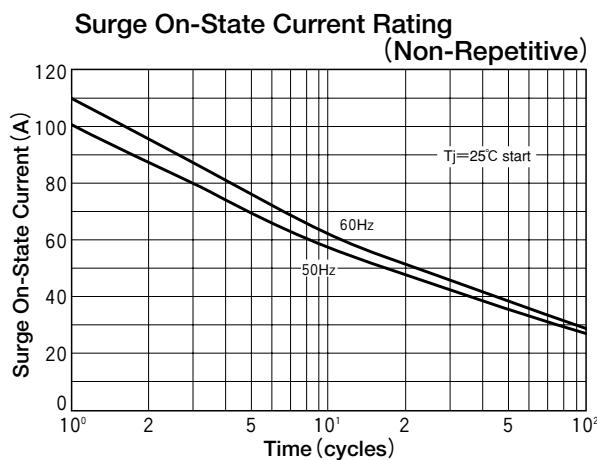
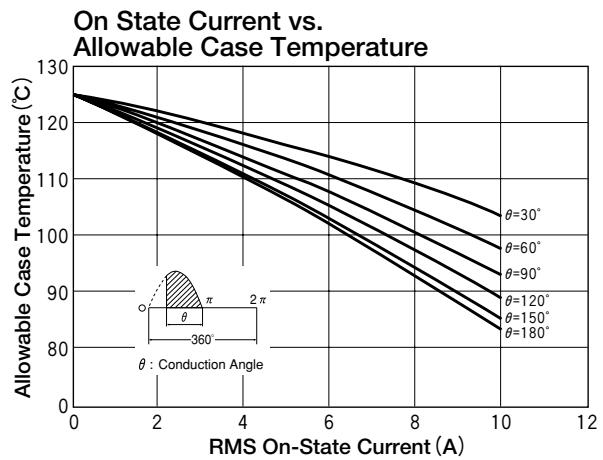
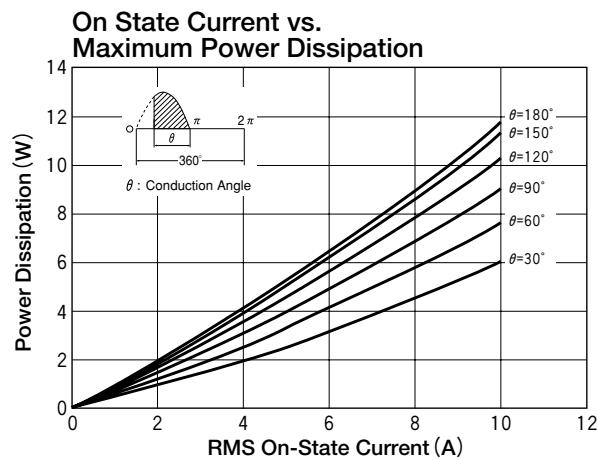
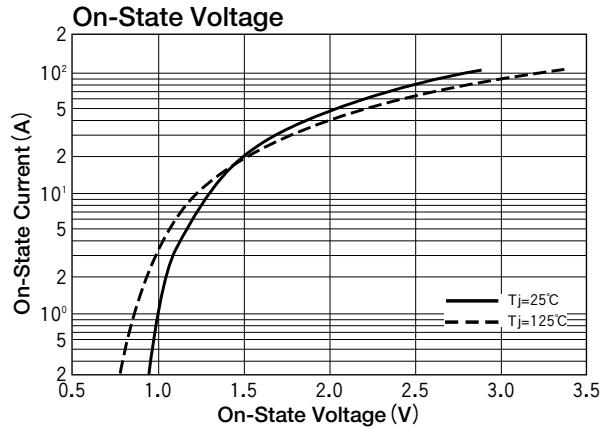
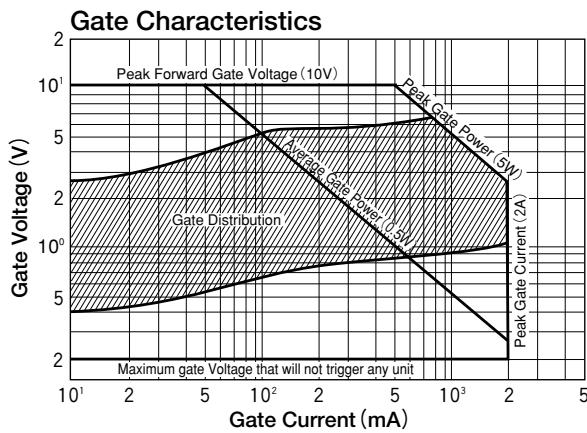
($T_j=25^\circ\text{C}$ unless otherwise specified)

Symbol	Item	Ratings		Unit
		TMG10C40F	TMG10C60F	
V_{DRM}	Repetitive Peak Off-State Voltage	400	600	V

Symbol	Item	Conditions	Ratings	Unit
$I_T(\text{RMS})$	R.M.S. On-State Current	$T_c=83^\circ\text{C}$	10	A
I_{TSM}	Surge On-State Current	One cycle, 50Hz/60Hz, peak, non-repetitive	100/110	A
I^2t	I^2t		50	A^2s
P_{GM}	Peak Gate Power Dissipation		5	W
$P_{G(AV)}$	Average Gate Power Dissipation		0.5	W
I_{GM}	Peak Gate Current		2	A
V_{GM}	Peak Gate Voltage		10	V
V_{ISO}	Isolation Breakdown Voltage (R.M.S.)	A.C. 1 minute	1500	V
T_j	Operating Junction Temperature		-40 to +125	$^\circ\text{C}$
T_{stg}	Storage Temperature		-40 to +125	$^\circ\text{C}$
	Mass		2	g

■ Electrical Characteristics

Symbol	Item	Conditions	Ratings			Unit
			Min.	Typ.	Max.	
I_{DRM}	Repetitive Peak Off-State Current	$V_D=V_{DRM}$, Single phase, half wave, $T_j=125^\circ\text{C}$			2	mA
V_{TM}	Peak On-State Voltage	$I_T=15\text{A}$, Inst. measurement			1.4	V
I_{GT1}^+	1	Gate Trigger Current			30	mA
I_{GT1}^-	2				30	
I_{GT3}^+	3				—	
I_{GT3}^-	4				30	
V_{GT1}^+	1	Gate Trigger Voltage			1.5	V
V_{GT1}^-	2				1.5	
V_{GT3}^+	3				—	
V_{GT3}^-	4				1.5	
V_{GD}	Non-Trigger Gate Voltage	$T_j=125^\circ\text{C}$, $V_D=\frac{1}{2}V_{DRM}$	0.2			V
$(dv/dt)_c$	Critical Rate of Rise off-State Voltage at commutation	$T_j=125^\circ\text{C}$, $(di/dt)_c=-5\text{A/ms}$, $V_D=\frac{2}{3}V_{DRM}$	10			$\text{V}/\mu\text{s}$
I_H	Holding Current			20		mA
$R_{th(j-c)}$	Thermal Impedance	Junction to case			3.5	$^\circ\text{C}/\text{W}$



TRIAC (ISOLATED TYPE)

TMG12C60F

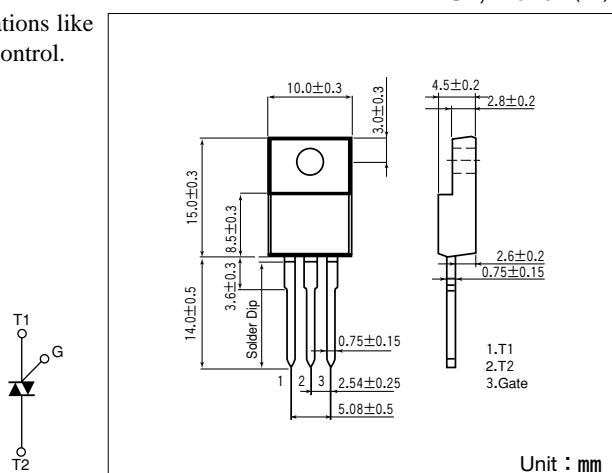
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UL;E76102 (M)

TMG12C40/60F are isolated mold triac suitable for wide range of applications like copier, microwave oven, solid state switch, motor control, light and heater control.

- $I_T(\text{RMS})$ 12A
- High surge capability 130A
- Full molded isolated type



Unit : mm

($T_j=25^\circ\text{C}$ unless otherwise specified)

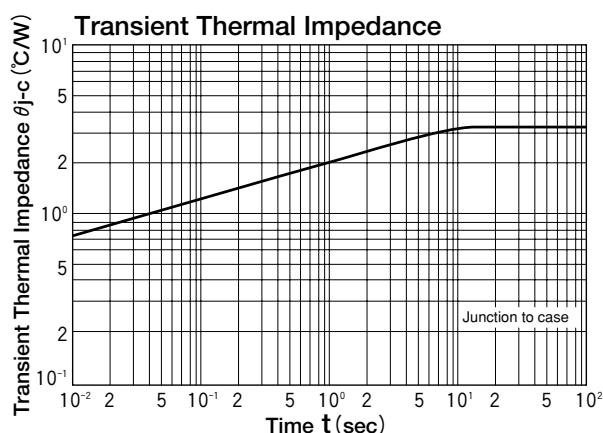
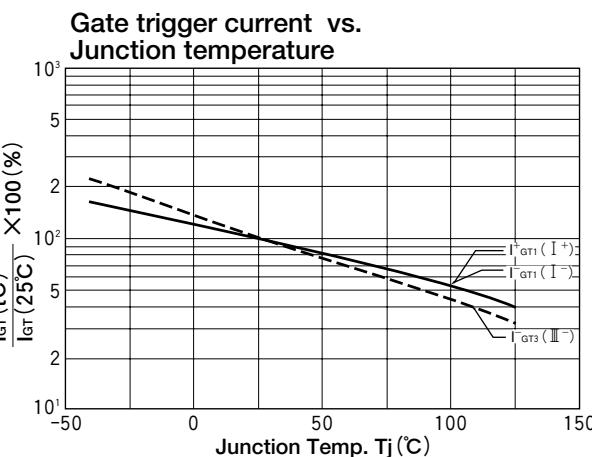
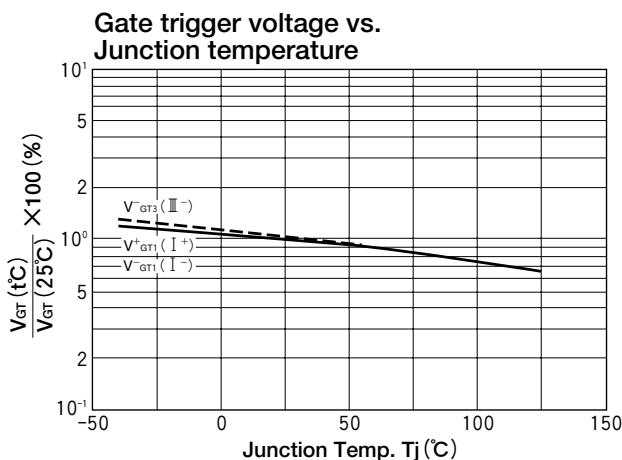
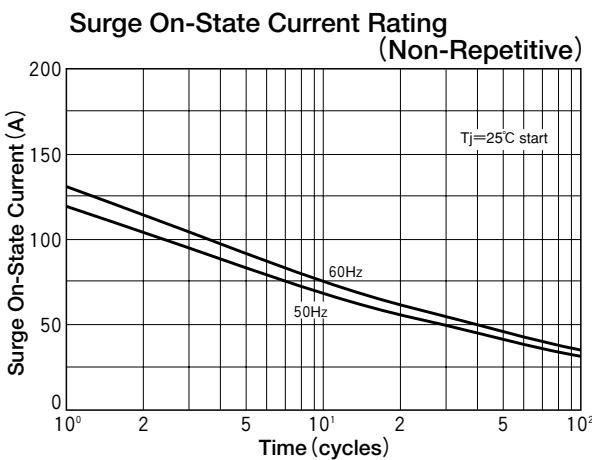
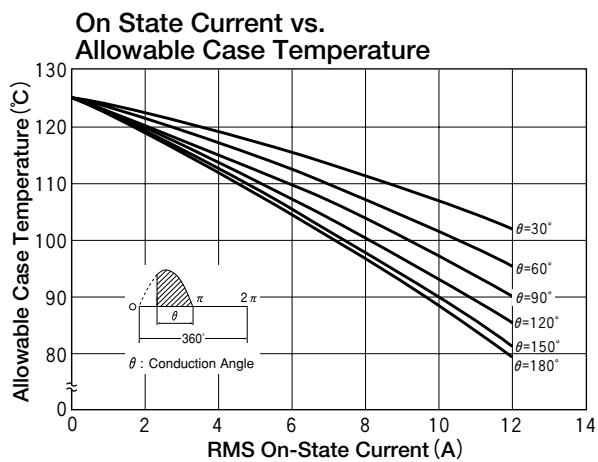
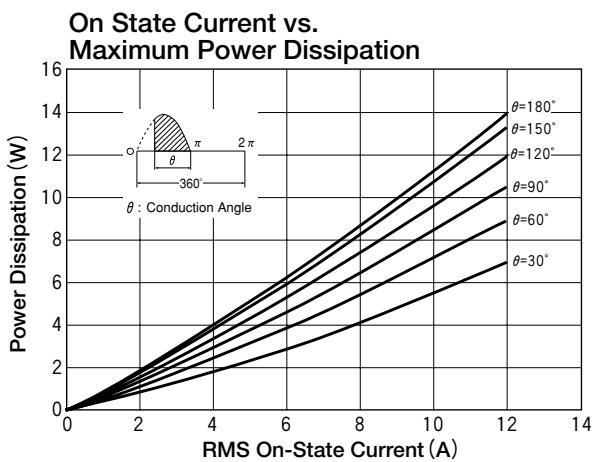
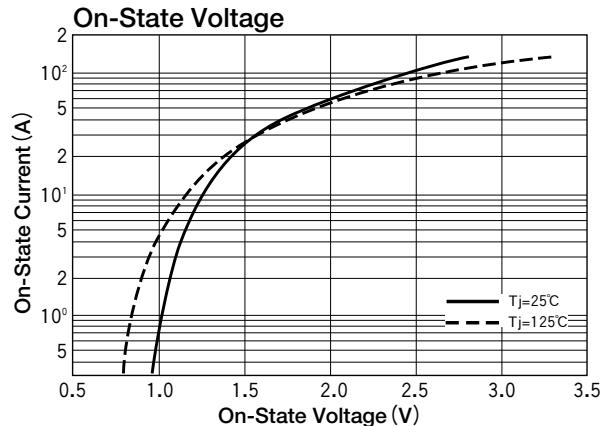
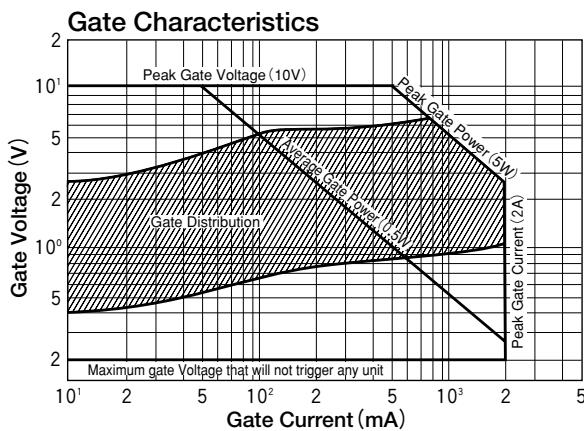
■ Maximum Ratings

Symbol	Item	Ratings		Unit
		TMG12C40F	TMG12C60F	
V_{DRM}	Repetitive Peak Off-State Voltage	400	600	V

Symbol	Item	Conditions	Ratings	Unit
$I_T(\text{RMS})$	R.M.S. On-State Current	$T_c=79^\circ\text{C}$	12	A
I_{TSM}	Surge On-State Current	One cycle, 50Hz/60Hz, peak, non-repetitive	119/130	A
I^2t	I^2t		71	A^2s
P_{GM}	Peak Gate Power Dissipation		5	W
$P_{G(AV)}$	Average Gate Power Dissipation		0.5	W
I_{GM}	Peak Gate Current		2	A
V_{GM}	Peak Gate Voltage		10	V
V_{ISO}	Isolation Breakdown Voltage (R.M.S.)	A.C. 1 minute	1500	V
T_j	Operating Junction Temperature		-40 to +125	$^\circ\text{C}$
T_{stg}	Storage Temperature		-40 to +125	$^\circ\text{C}$
	Mass		2	g

■ Electrical Characteristics

Symbol	Item	Conditions	Ratings			Unit
			Min.	Typ.	Max.	
I_{DRM}	Repetitive Peak Off-State Current	$V_D=V_{DRM}$, Single phase, half wave, $T_j=125^\circ\text{C}$			2	mA
V_{TM}	Peak On-State Voltage	$I_T=20\text{A}$, Inst. measurement			1.4	V
I_{GT1}^+	1	Gate Trigger Current			30	mA
I_{GT1}^-	2				30	
I_{GT3}^+	3				—	
I_{GT3}^-	4				30	
V_{GT1}^+	1	Gate Trigger Voltage			1.5	V
V_{GT1}^-	2				1.5	
V_{GT3}^+	3				—	
V_{GT3}^-	4				1.5	
V_{GD}	Non-Trigger Gate Voltage	$T_j=125^\circ\text{C}$, $V_D=\frac{1}{2}V_{DRM}$	0.2			V
$(dv/dt)_c$	Critical Rate of Rise off-State Voltage at commutation	$T_j=125^\circ\text{C}$, $(di/dt)_c=-6\text{A/ms}$, $V_D=\frac{2}{3}V_{DRM}$	10			$\text{V}/\mu\text{s}$
I_H	Holding Current			20		mA
$R_{th(j-c)}$	Thermal Impedance	Junction to case			3.3	$^\circ\text{C}/\text{W}$



TRIAC (ISOLATED TYPE)

TMG16C60F

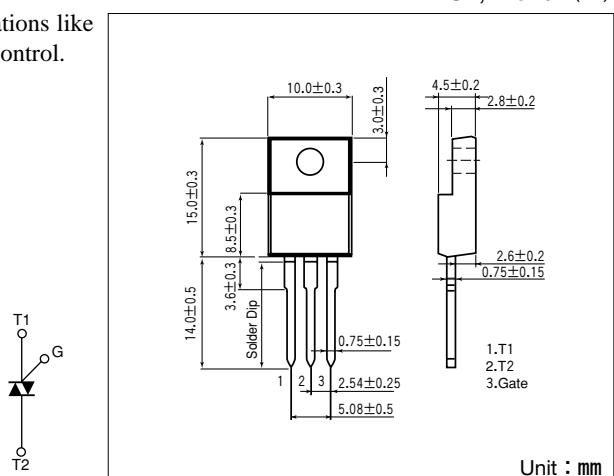
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UL;E76102 (M)

TMG16C40/60F are isolated mold triac suitable for wide range of applications like copier, microwave oven, solid state switch, motor control, light and heater control.

- $I_T(\text{RMS})$ 16A
- High surge capability 170A
- Full molded isolated type



Unit : mm

■ Maximum Ratings

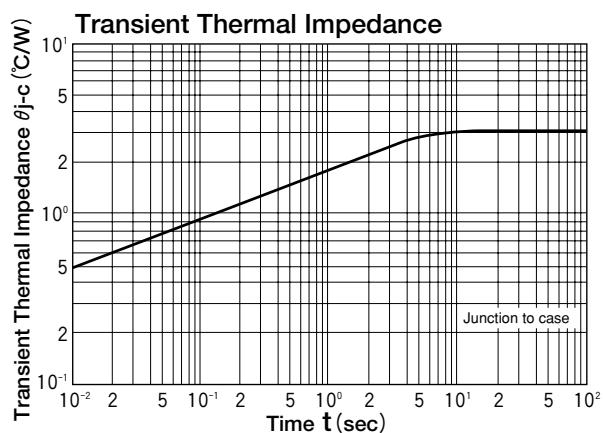
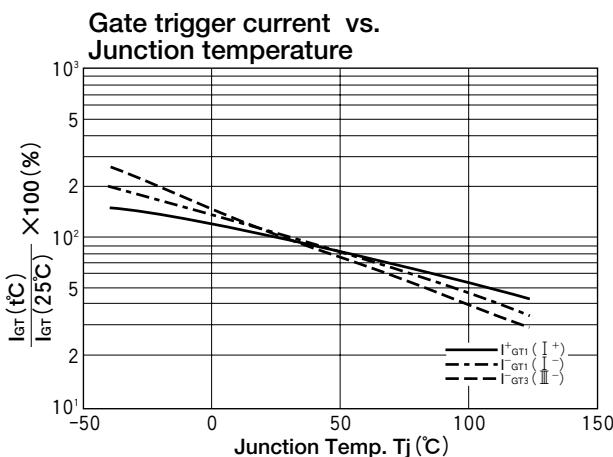
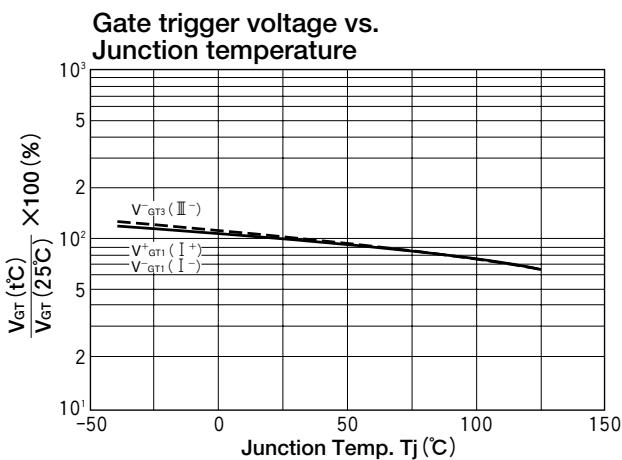
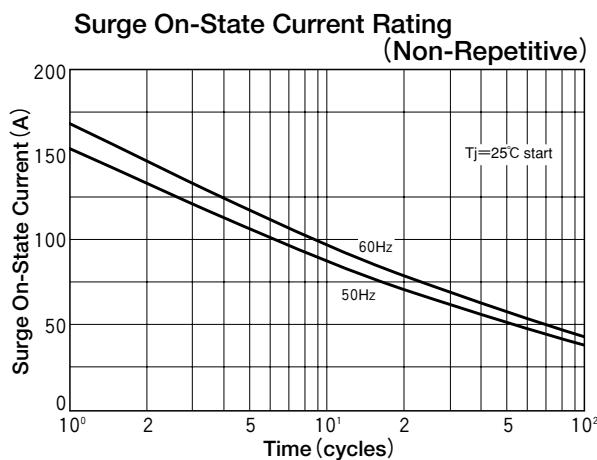
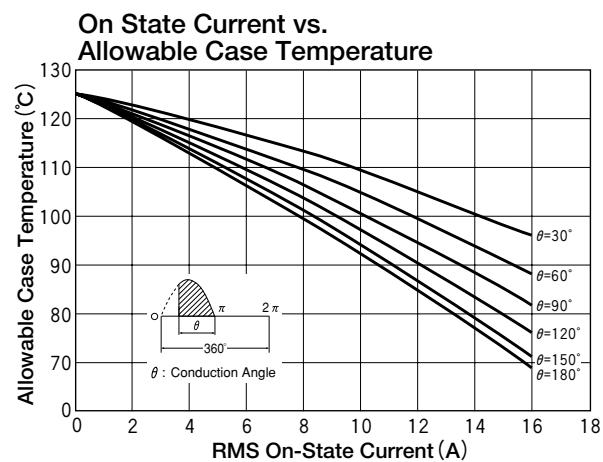
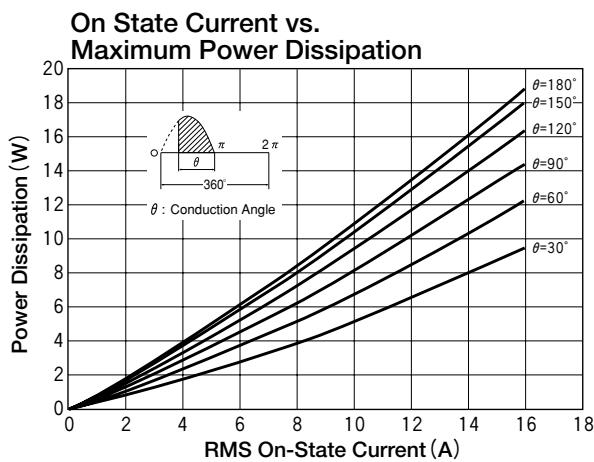
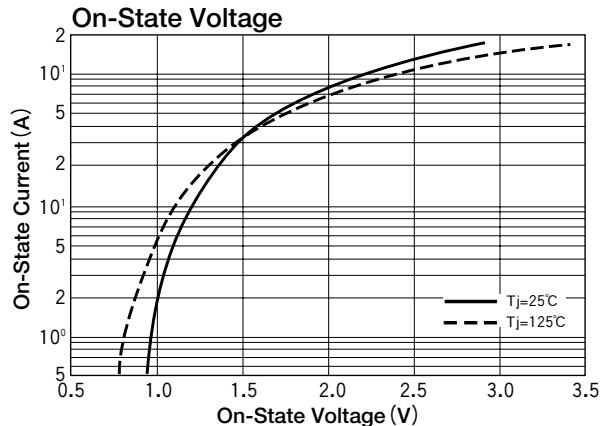
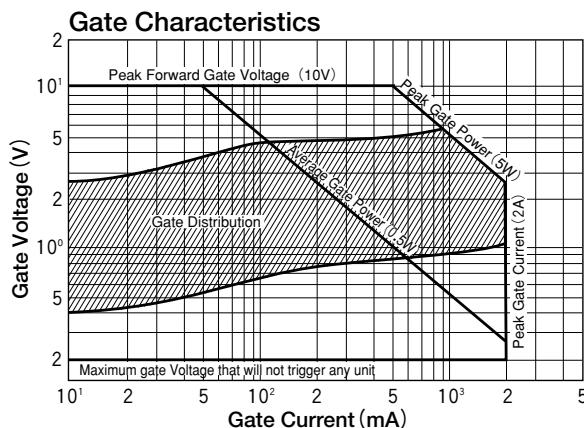
($T_j=25^\circ\text{C}$ unless otherwise specified)

Symbol	Item	Ratings		Unit
		TMG16C40F	TMG16C60F	
V_{DRM}	Repetitive Peak Off-State Voltage	400	600	V

Symbol	Item	Conditions	Ratings	Unit
$I_T(\text{RMS})$	R.M.S. On-State Current	$T_c=68^\circ\text{C}$	16	A
I_{TSM}	Surge On-State Current	One cycle, 50Hz/60Hz, peak, non-repetitive	155/170	A
I^2t	I^2t		120	A^2s
P_{GM}	Peak Gate Power Dissipation		5	W
$P_{G(AV)}$	Average Gate Power Dissipation		0.5	W
I_{GM}	Peak Gate Current		2	A
V_{GM}	Peak Gate Voltage		10	V
V_{ISO}	Isolation Breakdown Voltage (R.M.S.)	A.C. 1 minute	1500	V
T_j	Operating Junction Temperature		-40 to +125	$^\circ\text{C}$
T_{stg}	Storage Temperature		-40 to +125	$^\circ\text{C}$
	Mass		2	g

■ Electrical Characteristics

Symbol	Item	Conditions	Ratings			Unit
			Min.	Typ.	Max.	
I_{DRM}	Repetitive Peak Off-State Current	$V_D=V_{DRM}$, Single phase, half wave, $T_j=125^\circ\text{C}$			2	mA
V_{TM}	Peak On-State Voltage	$I_T=25\text{A}$, Inst. measurement			1.4	V
I_{GT1}^+ 1	Gate Trigger Current	$V_D=6\text{V}$, $R_L=10\Omega$			30	mA
I_{GT1}^- 2					30	
I_{GT3}^+ 3					—	
I_{GT3}^- 4					30	
V_{GT1}^+ 1	Gate Trigger Voltage	$V_D=6\text{V}$, $R_L=10\Omega$			1.5	V
V_{GT1}^- 2					1.5	
V_{GT3}^+ 3					—	
V_{GT3}^- 4					1.5	
V_{GD}	Non-Trigger Gate Voltage	$T_j=125^\circ\text{C}$, $V_D=\frac{1}{2}V_{DRM}$	0.2			V
$(dv/dt)_c$	Critical Rate of Rise off-State Voltage at commutation	$T_j=125^\circ\text{C}$, $(di/dt)_c=-8\text{A/ms}$, $V_D=\frac{2}{3}V_{DRM}$	10			$\text{V}/\mu\text{s}$
I_H	Holding Current			25		mA
$R_{th(j-c)}$	Thermal Impedance	Junction to case			3.0	$^\circ\text{C}/\text{W}$



TRIAC (NON-ISOLATED TYPE)

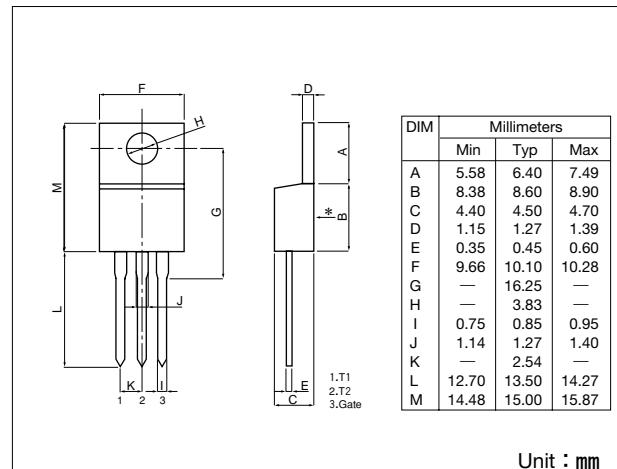
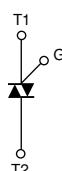
TMG5C60

TOP



TMG5C60 are non-isolated triac suitable for wide range of applications like copier, microwave oven, solid state switch, motor control, light and heater control.

- $I_{T(RMS)}$ 5A
- High surge capability 55A
- Non-isolated type



Unit : mm

■ Maximum Ratings

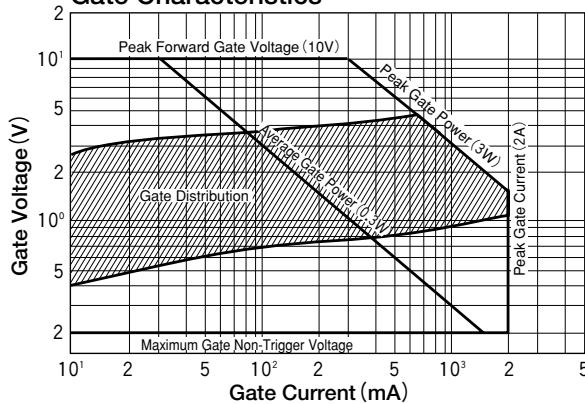
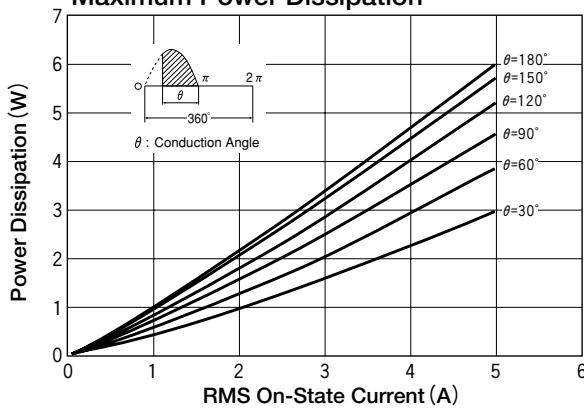
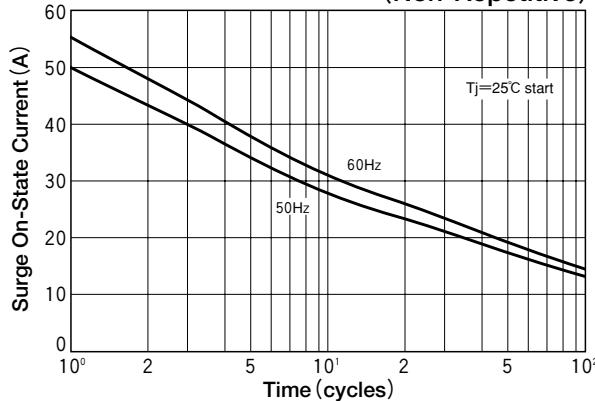
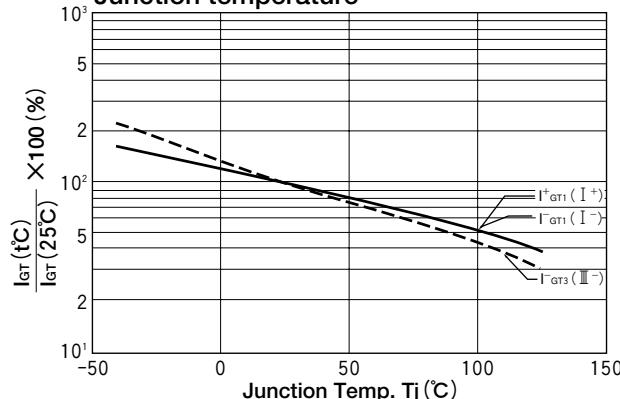
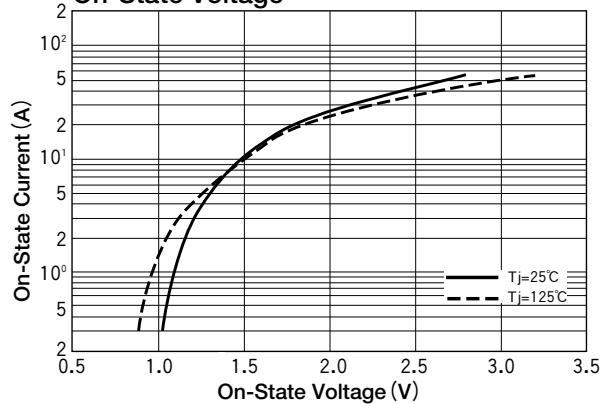
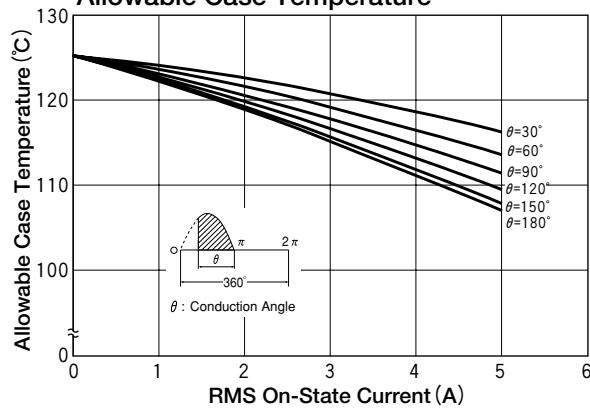
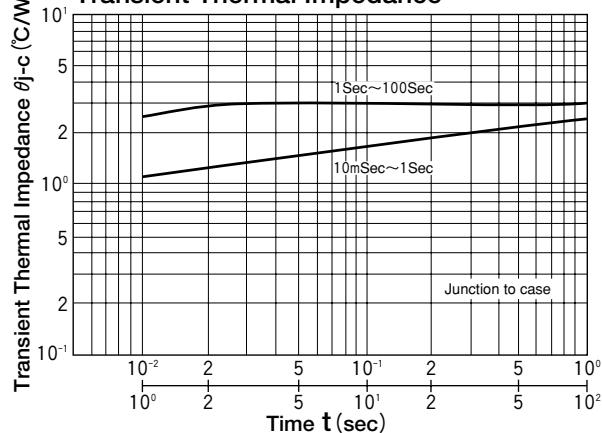
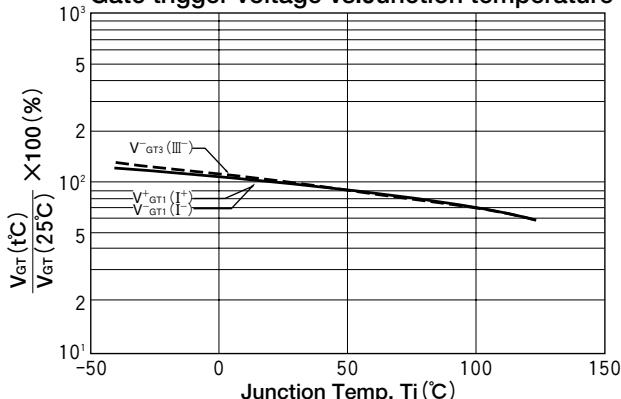
($T_j=25^\circ\text{C}$ unless otherwise specified)

Symbol	Item	Ratings	Unit
		TMG5C60	
V_{DRM}	Repetitive Peak Off-State Voltage	600	V

Symbol	Item	Conditions	Ratings	Unit
$I_{T(RMS)}$	R.M.S. On-State Current	$T_c=105^\circ\text{C}$	5	A
I_{TSM}	Surge On-State Current	One cycle, 50Hz/60Hz, peak, non-repetitive	50/55	A
I^2t	I^2t	1ms~10ms	12.6	A^2s
P_{GM}	Peak Gate Power Dissipation		3	W
$P_{G(AV)}$	Average Gate Power Dissipation		0.3	W
I_{GM}	Peak Gate Current		2	A
V_{GM}	Peak Gate Voltage		10	V
T_j	Operating Junction Temperature		-40 to +125	$^\circ\text{C}$
T_{stg}	Storage Temperature		-40 to +125	$^\circ\text{C}$
	Mass		2	g

■ Electrical Characteristics

Symbol	Item	Conditions	Ratings			Unit
			Min.	Typ.	Max.	
I_{DRM}	Repetitive Peak Off-State Current	$V_D=V_{DRM}$, Single phase, half wave, $T_j=125^\circ\text{C}$			1	mA
V_{TM}	Peak On-State Voltage	$I_t=7\text{A}$, Inst. measurement			1.4	V
I_{GT1}^+ 1	Gate Trigger Current	$V_D=6\text{V}$, $R_L=10\Omega$			20	mA
I_{GT1}^- 2					20	
I_{GT3}^+ 3					—	
I_{GT3}^- 4					20	
V_{GT1}^+ 1	Gate Trigger Voltage	$V_D=6\text{V}$, $R_L=10\Omega$			1.5	V
V_{GT1}^- 2					1.5	
V_{GT3}^+ 3					—	
V_{GT3}^- 4					1.5	
V_{GD}	Non-Trigger Gate Voltage	$T_j=125^\circ\text{C}$, $V_D=\frac{1}{2}V_{DRM}$	0.2			V
$(dv/dt)_c$	Critical Rate of Rise off-State Voltage at commutation	$T_j=125^\circ\text{C}$, $(dv/dt)_c=-2.5\text{A/ms}$, $V_D=\frac{2}{3}V_{DRM}$	5			$\text{V}/\mu\text{s}$
I_H	Holding Current			10		mA
$R_{th(j-c)}$	Thermal Impedance	Junction to case			3.0	$^\circ\text{C}/\text{W}$

Gate Characteristics**On State Current vs. Maximum Power Dissipation****Surge On-State Current Rating (Non-Repetitive)****Gate trigger current vs. Junction temperature****On-State Voltage****On State Current vs. Allowable Case Temperature****Transient Thermal Impedance****Gate trigger voltage vs. Junction temperature**

TRIAC (NON-ISOLATED TYPE)

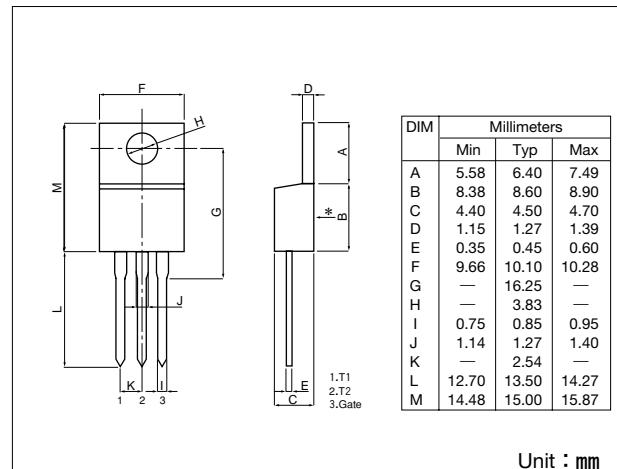
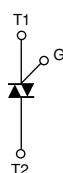
TMG8C60

TOP



TMG8C60 are non-isolated triac suitable for wide range of applications like copier, microwave oven, solid state switch, motor control, light and heater control.

- $I_{T(RMS)}$ 8A
- High surge capability 88A
- Non-isolated type



Unit : mm

■ Maximum Ratings

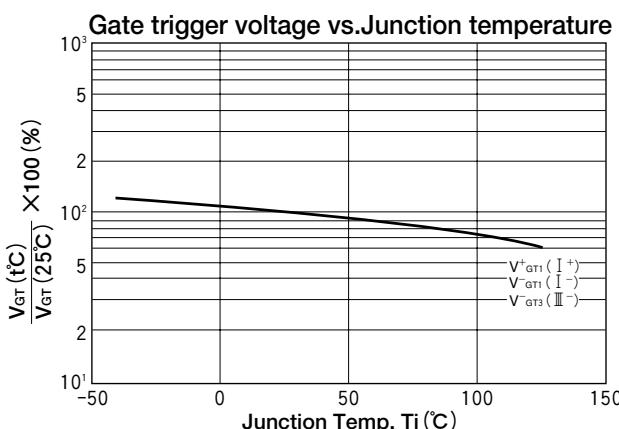
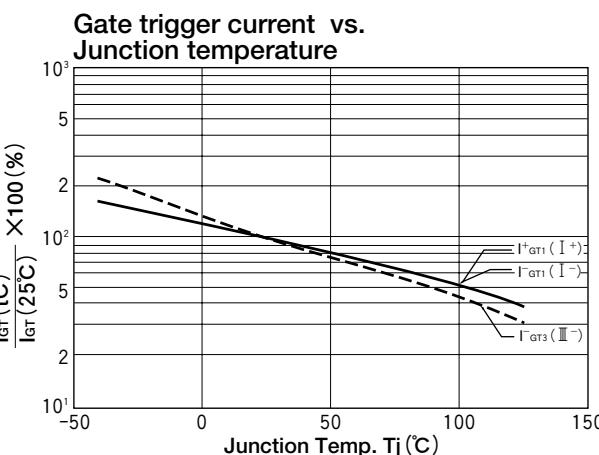
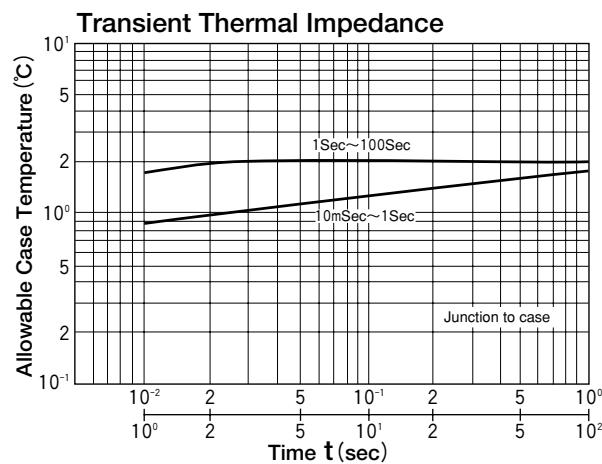
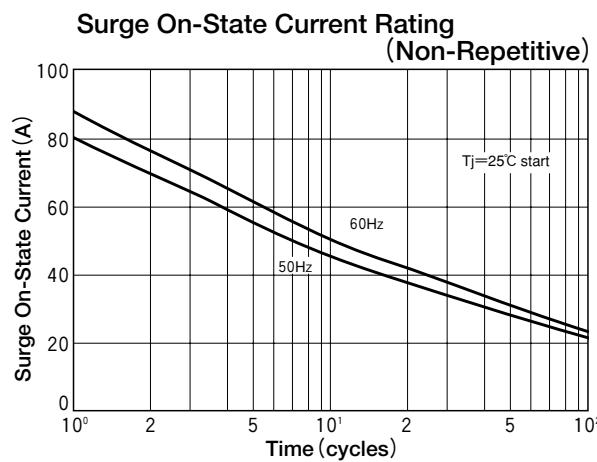
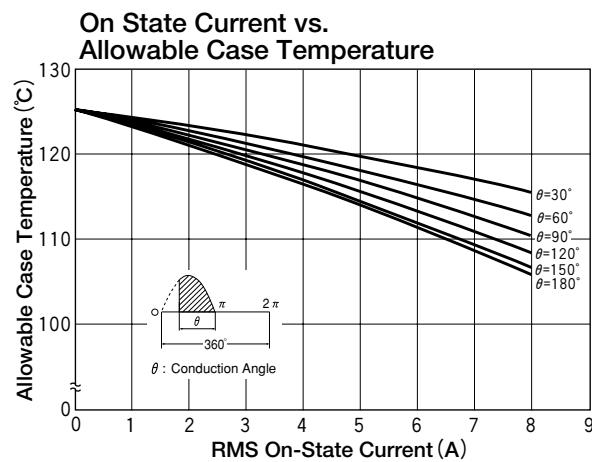
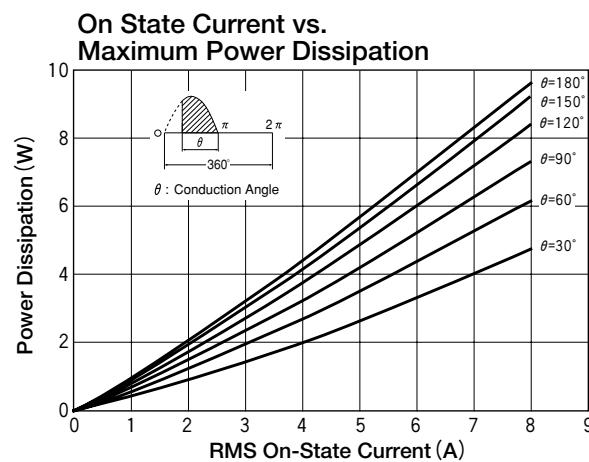
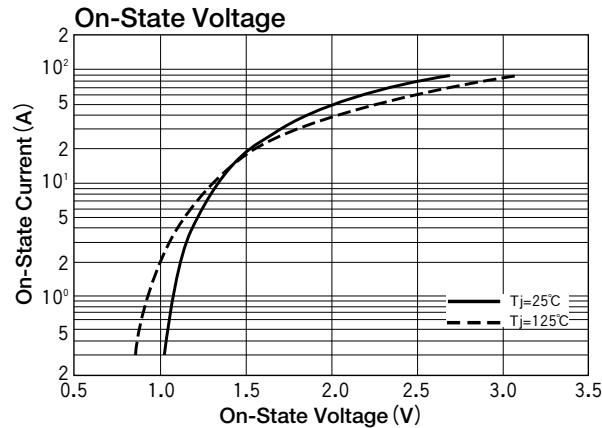
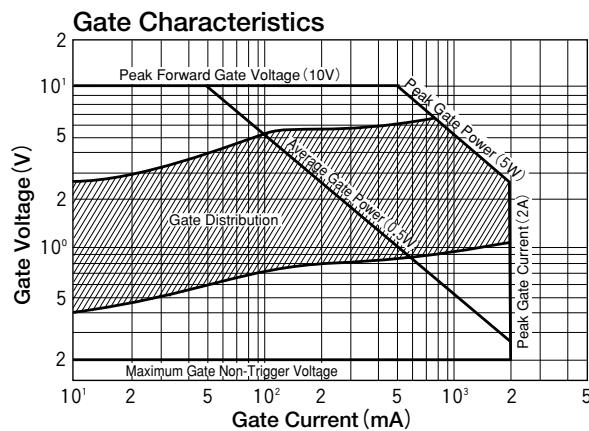
($T_j=25^\circ\text{C}$ unless otherwise specified)

Symbol	Item	Ratings	Unit
		TMG8C60	
V_{DRM}	Repetitive Peak Off-State Voltage	600	V

Symbol	Item	Conditions	Ratings	Unit
$I_{T(RMS)}$	R.M.S. On-State Current	$T_c=105^\circ\text{C}$	8	A
I_{TSM}	Surge On-State Current	One cycle, 50Hz/60Hz, peak, non-repetitive	80/88	A
I^2t	I^2t	1ms~10ms	32	A^2s
P_{GM}	Peak Gate Power Dissipation		5	W
$P_{G(AV)}$	Average Gate Power Dissipation		0.5	W
I_{GM}	Peak Gate Current		2	A
V_{GM}	Peak Gate Voltage		10	V
T_j	Operating Junction Temperature		-40 to +125	$^\circ\text{C}$
T_{stg}	Storage Temperature		-40 to +125	$^\circ\text{C}$
	Mass		2	g

■ Electrical Characteristics

Symbol	Item	Conditions	Ratings			Unit
			Min.	Typ.	Max.	
I_{DRM}	Repetitive Peak Off-State Current	$V_D=V_{DRM}$, Single phase, half wave, $T_j=125^\circ\text{C}$			2	mA
V_{TM}	Peak On-State Voltage	$I_T=12\text{A}$, Inst. measurement			1.4	V
I_{GT1}^+	1	Gate Trigger Current	$V_D=6\text{V}$, $R_L=10\Omega$		30	mA
I_{GT1}^-	2				30	
I_{GT3}^+	3				—	
I_{GT3}^-	4				30	
V_{GT1}^+	1	Gate Trigger Voltage	$V_D=6\text{V}$, $R_L=10\Omega$		1.5	V
V_{GT1}^-	2				1.5	
V_{GT3}^+	3				—	
V_{GT3}^-	4				1.5	
V_{GD}	Non-Trigger Gate Voltage	$T_j=125^\circ\text{C}$, $V_D=\frac{1}{2}V_{DRM}$	0.2			V
$(dv/dt)_c$	Critical Rate of Rise off-State Voltage at commutation	$T_j=125^\circ\text{C}$, $(dv/dt)_c=-4\text{A/ms}$, $V_D=\frac{2}{3}V_{DRM}$	10			$\text{V}/\mu\text{s}$
I_H	Holding Current			15		mA
$R_{th(j-c)}$	Thermal Impedance	Junction to case			2.0	$^\circ\text{C}/\text{W}$



TRIAC (NON-ISOLATED TYPE)

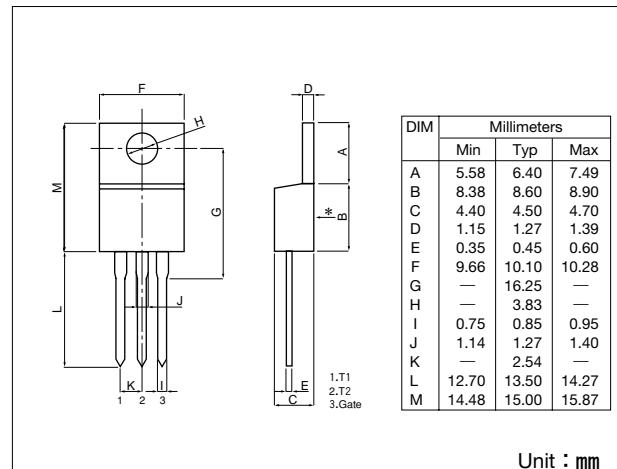
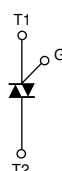
TMG10C60

TOP



TMG10C60 are non-isolated triac suitable for wide range of applications like copier, microwave oven, solid state switch, motor control, light and heater control.

- $I_{T(RMS)} = 10A$
- High surge capability 110A
- Non-isolated type



■ Maximum Ratings

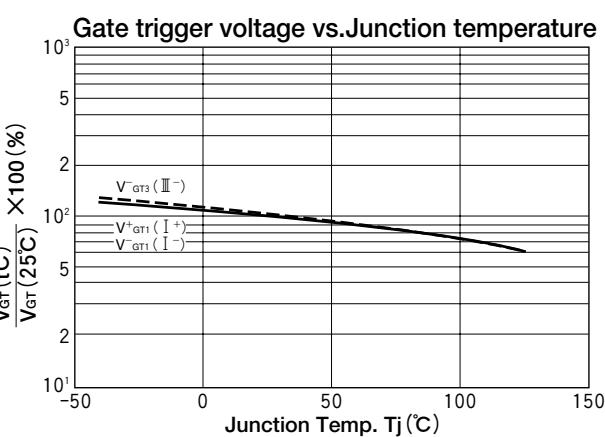
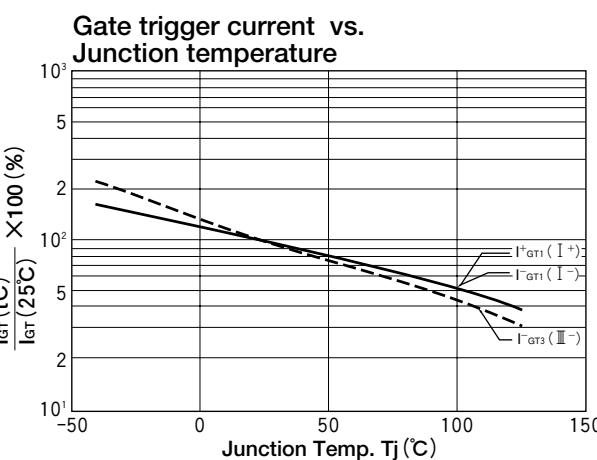
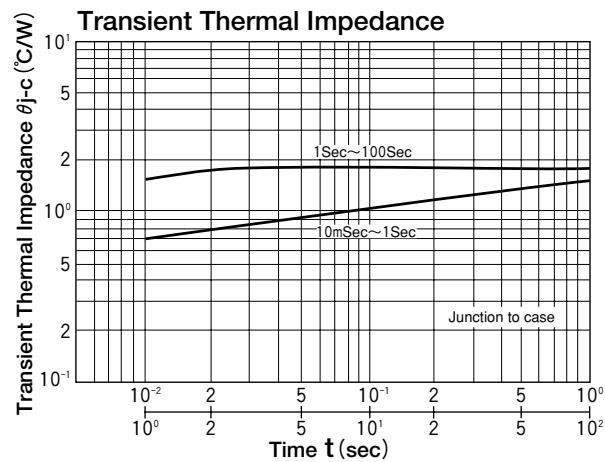
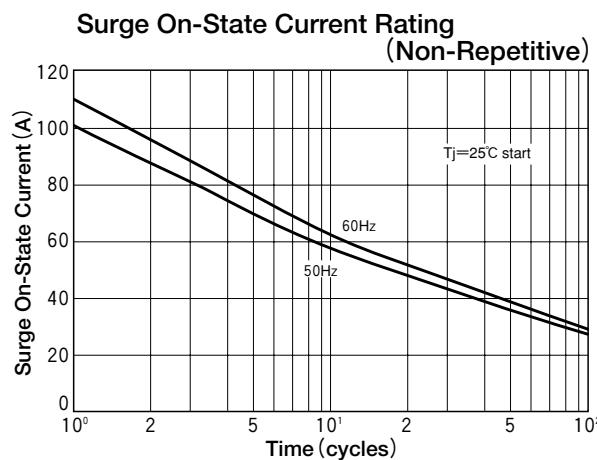
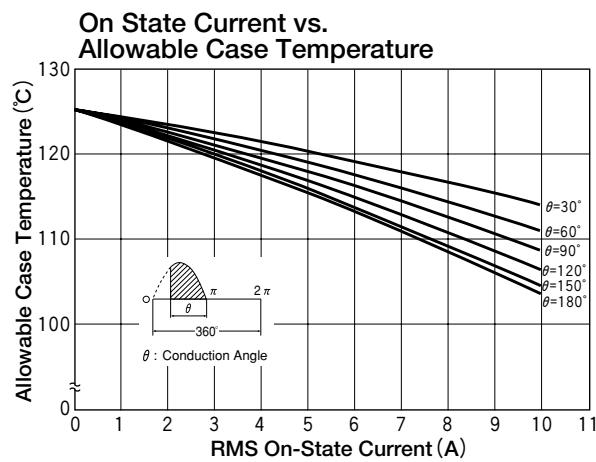
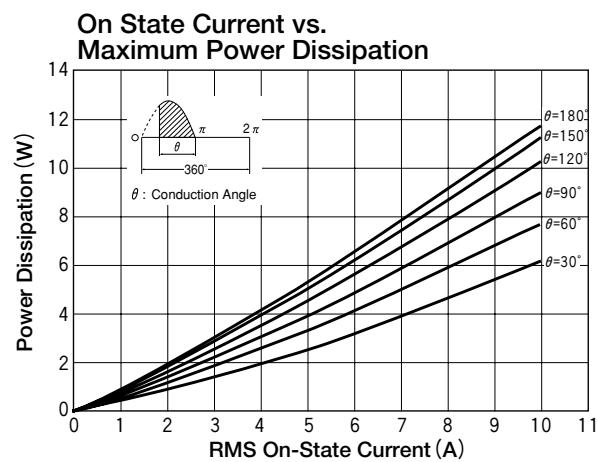
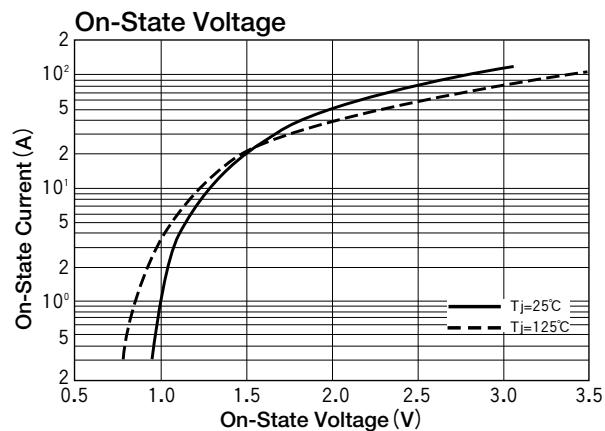
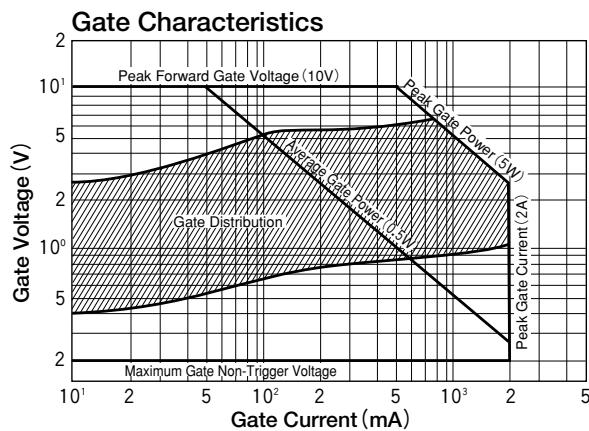
($T_j=25^\circ C$ unless otherwise specified)

Symbol	Item	Ratings	Unit
		TMG10C60	
V_{DRM}	Repetitive Peak Off-State Voltage	600	V

Symbol	Item	Conditions	Ratings	Unit
$I_{T(RMS)}$	R.M.S. On-State Current	$T_c=103^\circ C$	10	A
I_{TSM}	Surge On-State Current	One cycle, 50Hz/60Hz, peak, non-repetitive	100/110	A
I^2t	I^2t	1ms~10ms	50	A^2S
P_{GM}	Peak Gate Power Dissipation		5	W
$P_{G(AV)}$	Average Gate Power Dissipation		0.5	W
I_{GM}	Peak Gate Current		2	A
V_{GM}	Peak Gate Voltage		10	V
T_j	Operating Junction Temperature		-40 to +125	$^\circ C$
T_{stg}	Storage Temperature		-40 to +125	$^\circ C$
	Mass		2	g

■ Electrical Characteristics

Symbol	Item	Conditions	Ratings			Unit
			Mon.	Typ.	Max.	
I_{DRM}	Repetitive Peak Off-State Current	$V_D=V_{DRM}$, Single phase, half wave, $T_j=125^\circ C$			2	mA
V_{TM}	Peak On-State Voltage	$I_T=15A$, Inst. measurement			1.4	V
I_{GT1}^+ 1	Gate Trigger Current	$V_D=6V$, $R_L=10\Omega$			30	mA
I_{GT1}^- 2					30	
I_{GT3}^+ 3					—	
I_{GT3}^- 4					30	
V_{GT1}^+ 1	Gate Trigger Voltage	$V_D=6V$, $R_L=10\Omega$			1.5	V
V_{GT1}^- 2					1.5	
V_{GT3}^+ 3					—	
V_{GT3}^- 4					1.5	
V_{GD}	Non-Trigger Gate Voltage	$T_j=125^\circ C$, $V_D=\frac{1}{2}V_{DRM}$	0.2			V
$(dv/dt)_c$	Critical Rate of Rise off-State Voltage at commutation	$T_j=125^\circ C$, $(dv/dt)_c=-5A/ms$, $V_D=\frac{2}{3}V_{DRM}$	10			$V/\mu s$
I_H	Holding Current			20		mA
$R_{th(j-c)}$	Thermal Impedance	Junction to case			1.8	$^\circ C/W$



TRIAC (NON-ISOLATED TYPE)

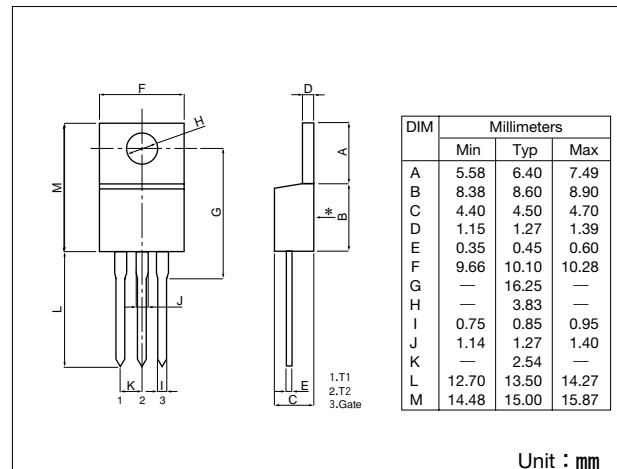
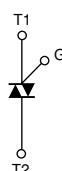
TMG12C60

TOP



TMG12C60 are non-isolated triac suitable for wide range of applications like copier, microwave oven, solid state switch, motor control, light and heater control.

- $I_{T(RMS)}$ 12A
- High surge capability 130A
- Non-isolated type



■ Maximum Ratings

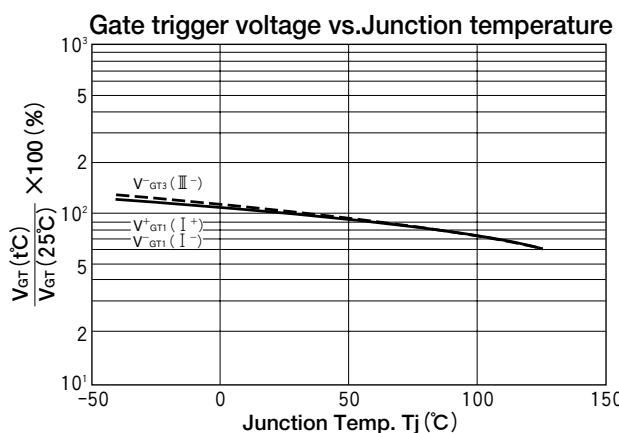
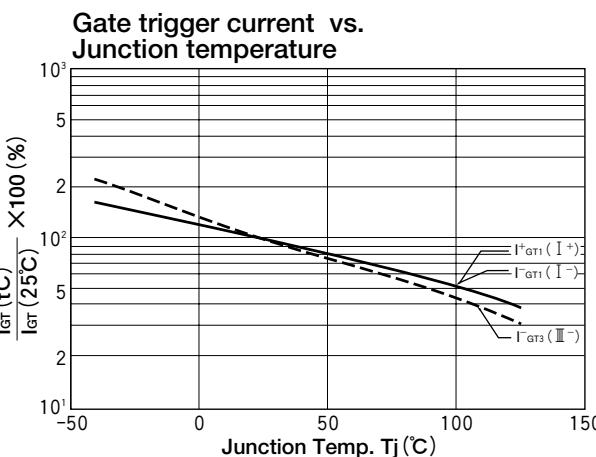
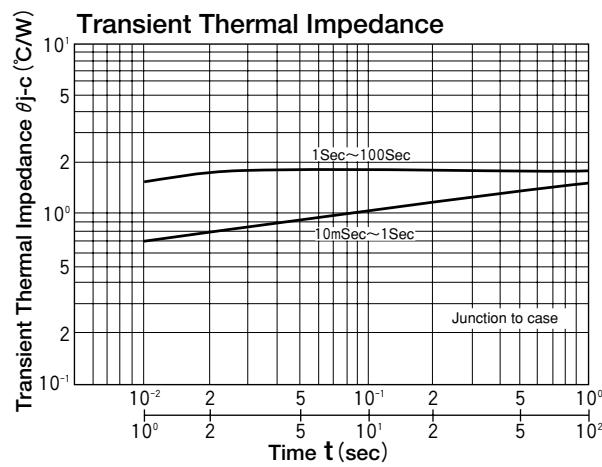
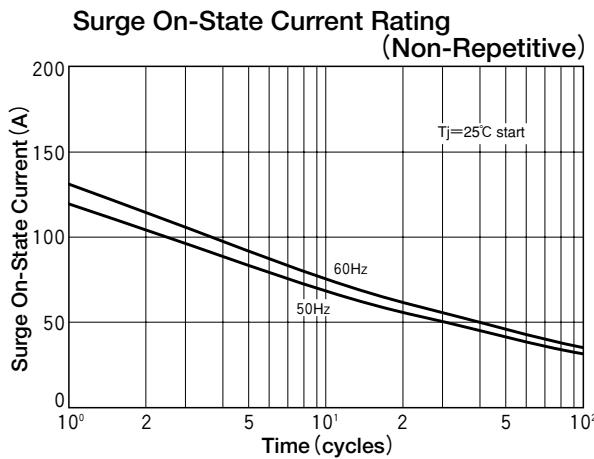
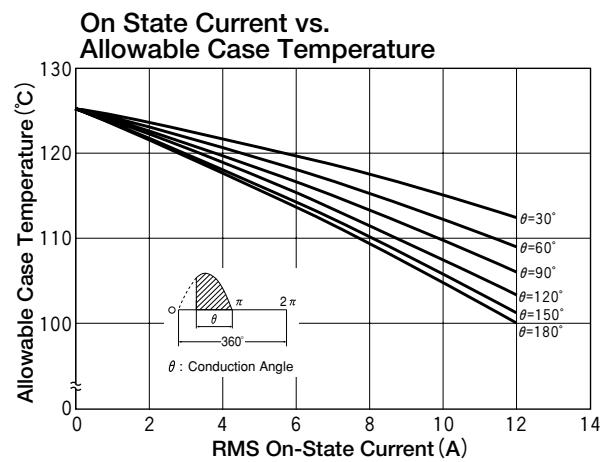
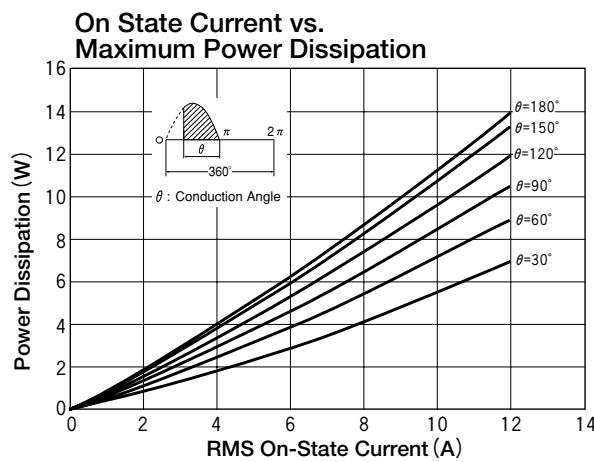
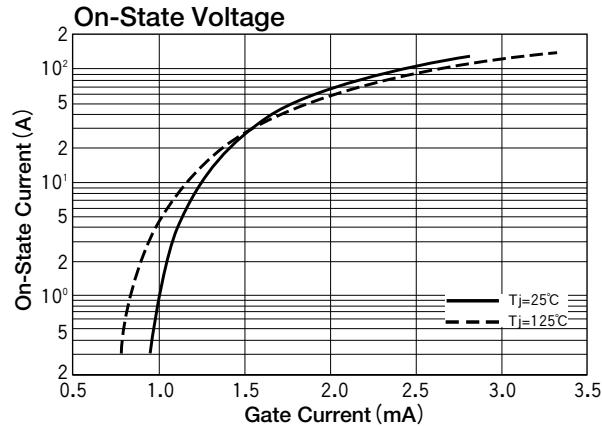
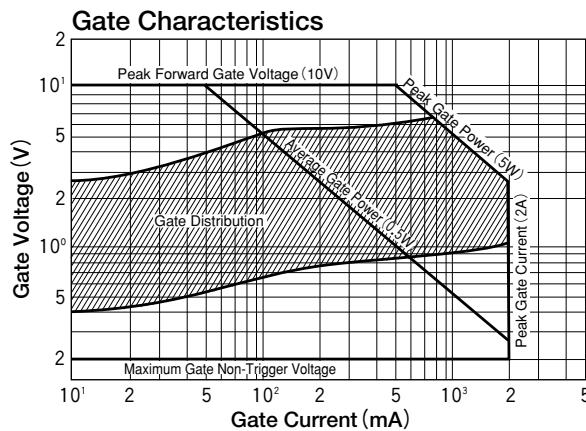
($T_j=25^\circ\text{C}$ unless otherwise specified)

Symbol	Item	Ratings	Unit
		TMG12C60	
V_{DRM}	Repetitive Peak Off-State Voltage	600	V

Symbol	Item	Conditions	Ratings	Unit
$I_{T(RMS)}$	R.M.S. On-State Current	$T_c=100^\circ\text{C}$	12	A
I_{TSM}	Surge On-State Current	One cycle, 50Hz/60Hz, peak, non-repetitive	119/130	A
I^2t	I^2t	1ms~10ms	71	A^2s
P_{GM}	Peak Gate Power Dissipation		5	W
$P_{G(AV)}$	Average Gate Power Dissipation		0.5	W
I_{GM}	Peak Gate Current		2	A
V_{GM}	Peak Gate Voltage		10	V
T_j	Operating Junction Temperature		-40 to +125	$^\circ\text{C}$
T_{stg}	Storage Temperature		-40 to +125	$^\circ\text{C}$
	Mass		2	g

■ Electrical Characteristics

Symbol	Item	Conditions	Ratings			Unit
			Min.	Typ.	Max.	
I_{DRM}	Repetitive Peak Off-State Current	$V_D=V_{DRM}$, Single phase, half wave, $T_j=125^\circ\text{C}$			2	mA
V_{TM}	Peak On-State Voltage	$I_t=20\text{A}$, Inst. measurement			1.4	V
I_{GT1}^+ 1	Gate Trigger Current	$V_D=6\text{V}$, $R_L=10\Omega$			30	mA
I_{GT1}^- 2					30	
I_{GT3}^+ 3					—	
I_{GT3}^- 4					30	
V_{GT1}^+ 1	Gate Trigger Voltage	$V_D=6\text{V}$, $R_L=10\Omega$			1.5	V
V_{GT1}^- 2					1.5	
V_{GT3}^+ 3					—	
V_{GT3}^- 4					1.5	
V_{GD}	Non-Trigger Gate Voltage	$T_j=125^\circ\text{C}$, $V_D=\frac{1}{2}V_{DRM}$	0.2			V
$(dv/dt)_c$	Critical Rate of Rise off-State Voltage at commutation	$T_j=125^\circ\text{C}$, $(dv/dt)_c=-6\text{A/ms}$, $V_D=\frac{2}{3}V_{DRM}$	10			$\text{V}/\mu\text{s}$
I_H	Holding Current			20		mA
$R_{th(j-c)}$	Thermal Impedance	Junction to case			1.8	$^\circ\text{C}/\text{W}$



TRIAC (NON-ISOLATED TYPE)

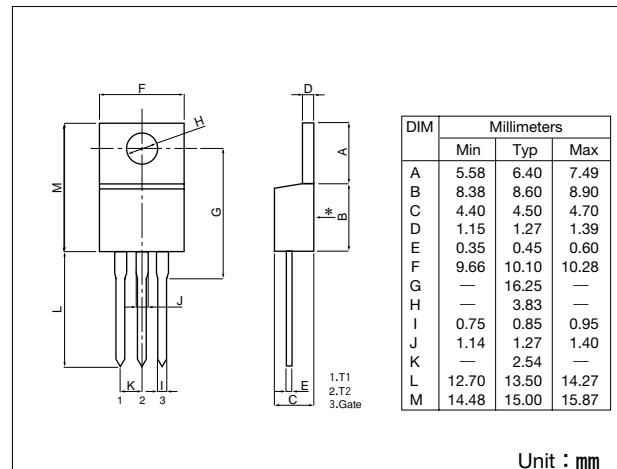
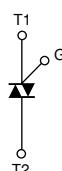
TMG16C60

TOP



TMG16C60 are non-isolated triac suitable for wide range of applications like copier, microwave oven, solid state switch, motor control, light and heater control.

- $I_{T(RMS)}$ 16A
- High surge capability 170A
- Non-isolated type



■ Maximum Ratings

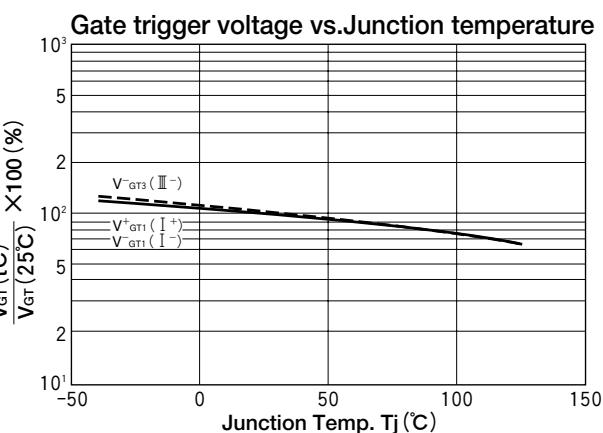
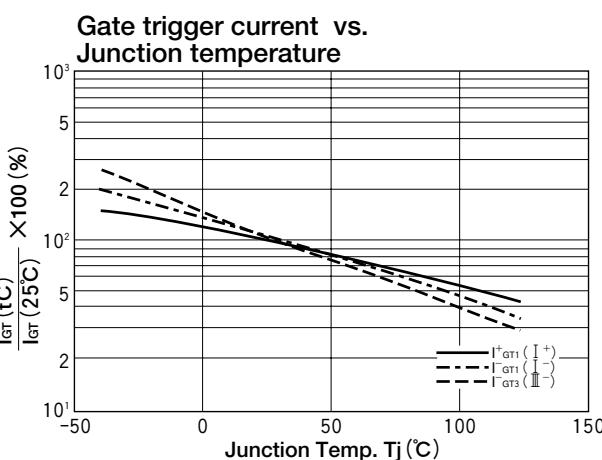
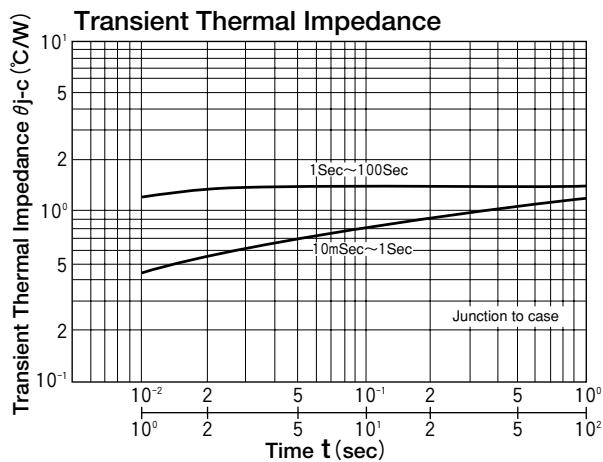
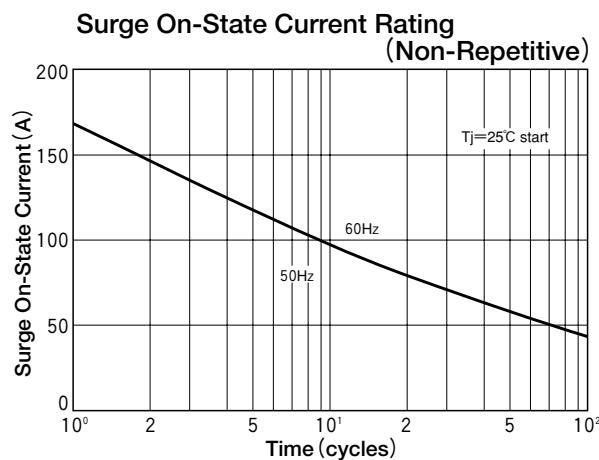
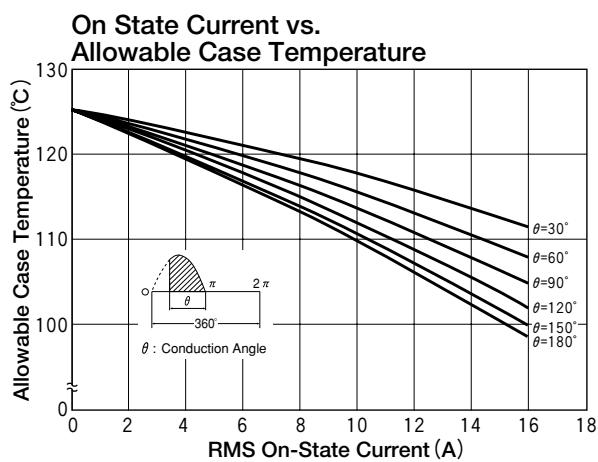
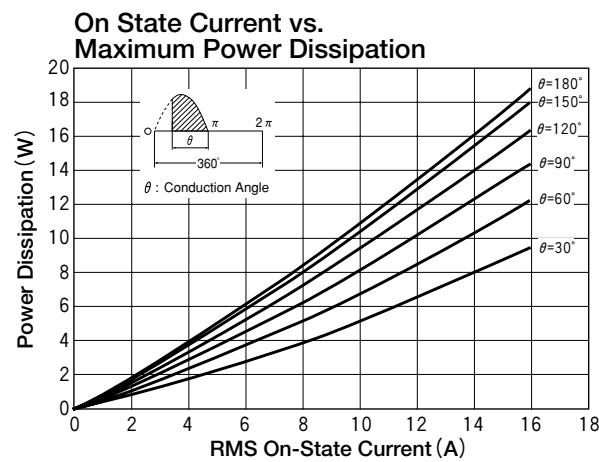
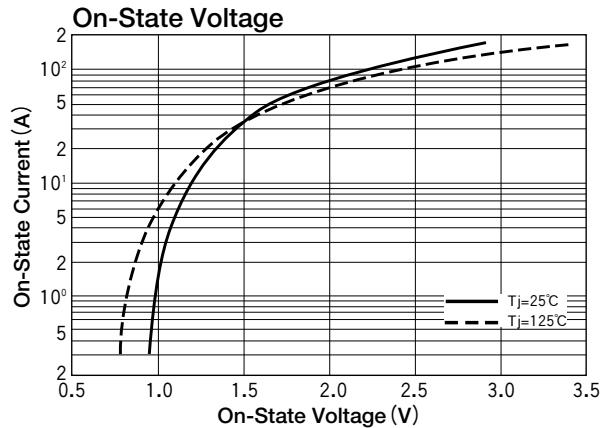
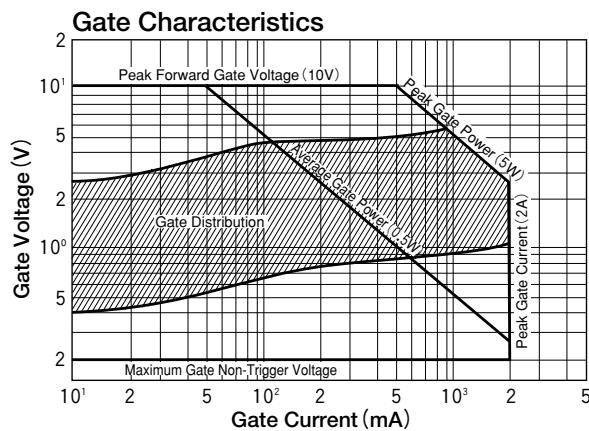
($T_j=25^\circ\text{C}$ unless otherwise specified)

Symbol	Item	Ratings	Unit
		TMG16C60	
V_{DRM}	Repetitive Peak Off-State Voltage	600	V

Symbol	Item	Conditions	Ratings	Unit
$I_{T(RMS)}$	R.M.S. On-State Current	$T_c=98^\circ\text{C}$	16	A
I_{TSM}	Surge On-State Current	One cycle, 50Hz/60Hz, peak, non-repetitive	155/170	A
I^2t	I^2t	Value for one cycle of surge current	120	A^2s
P_{GM}	Peak Gate Power Dissipation		5	W
$P_{G(AV)}$	Average Gate Power Dissipation		0.5	W
I_{GM}	Peak Gate Current		2	A
V_{GM}	Peak Gate Voltage		10	V
T_j	Operating Junction Temperature		-40 to +125	$^\circ\text{C}$
T_{stg}	Storage Temperature		-40 to +125	$^\circ\text{C}$
	Mass		2	g

■ Electrical Characteristics

Symbol	Item	Conditions	Ratings			Unit
			Min.	Typ.	Max.	
I_{DRM}	Repetitive Peak Off-State Current	$V_D=V_{DRM}$, Single phase, half wave, $T_j=125^\circ\text{C}$			2	mA
V_{TM}	Peak On-State Voltage	$I_t=20\text{A}$, Inst. measurement			1.4	V
I_{GT1}^+	1	Gate Trigger Current	$V_D=6\text{V}$, $R_L=10\Omega$		30	mA
I_{GT1}^-	2				30	
I_{GT3}^+	3				—	
I_{GT3}^-	4				30	
V_{GT1}^+	1	Gate Trigger Voltage	$V_D=6\text{V}$, $R_L=10\Omega$		1.5	V
V_{GT1}^-	2				1.5	
V_{GT3}^+	3				—	
V_{GT3}^-	4				1.5	
V_{GD}	Non-Trigger Gate Voltage	$T_j=125^\circ\text{C}$, $V_D=\frac{1}{2}V_{DRM}$	0.2			V
$(dv/dt)_c$	Critical Rate of Rise off-State Voltage at commutation	$T_j=125^\circ\text{C}$, $(dv/dt)_c=-8\text{A/ms}$, $V_D=\frac{2}{3}V_{DRM}$	10			$\text{V}/\mu\text{s}$
I_H	Holding Current			25		mA
$R_{th(j-c)}$	Thermal Impedance	Junction to case			1.4	$^\circ\text{C}/\text{W}$



TRIAC (ISOLATED TYPE)

TG16C/D

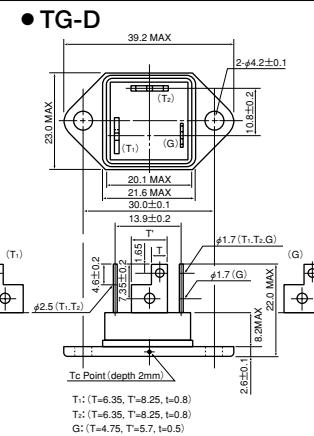
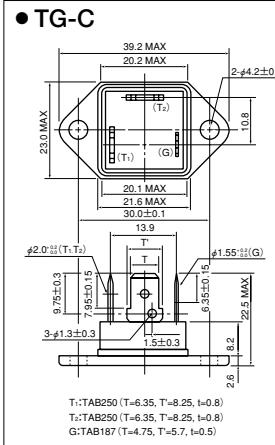
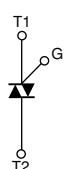
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UL;E76102(M)

TG16C/D are isolated molded triacs suitable for wide range of applications like copier, microwave oven, solid state switch, motor control, light control and heater control.

- $I_{T(AV)}$ 16A
- High surge capability 160A
- Isolated Nounting (AC2500V)
- Tab Terminals



Unit : mm

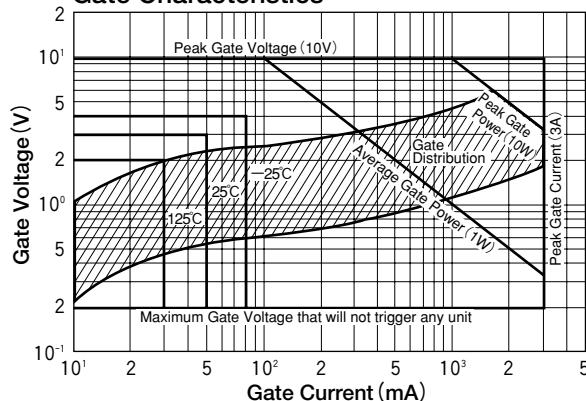
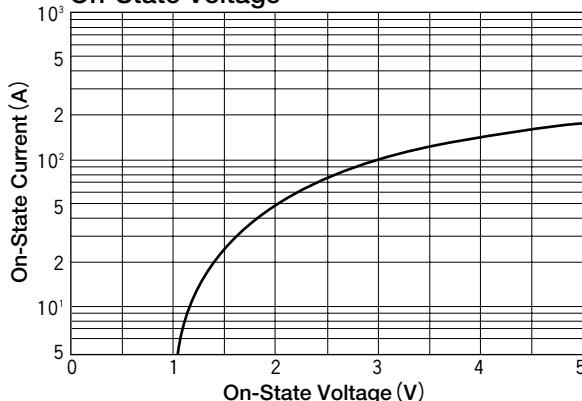
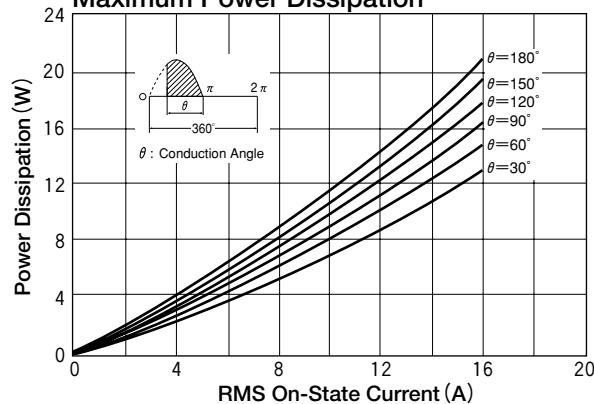
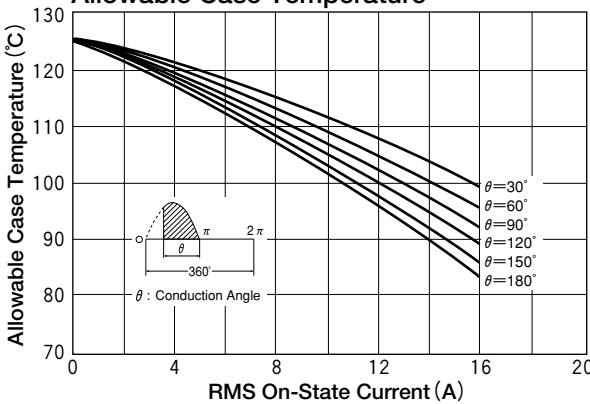
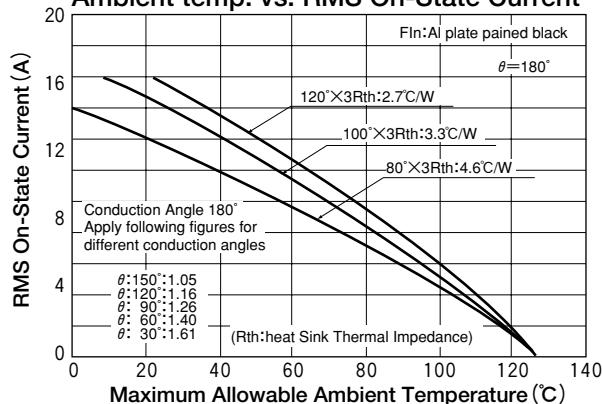
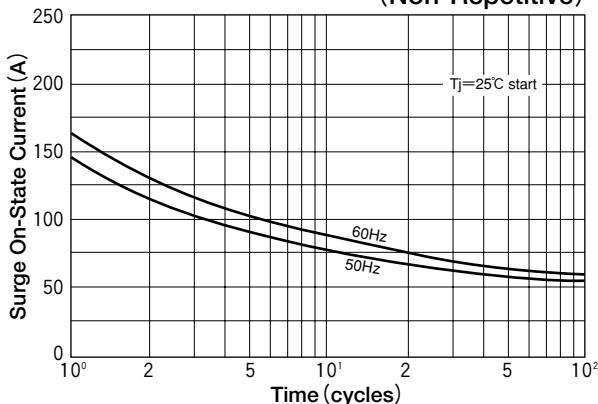
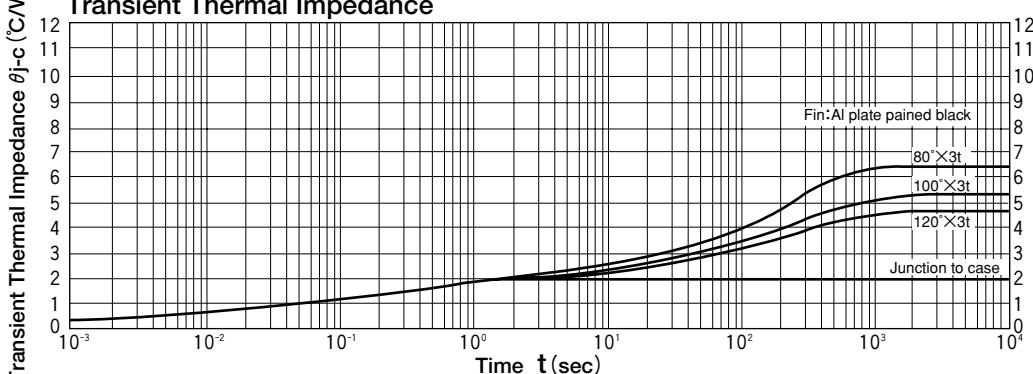
Maximum Ratings

Symbol	Item	Ratings		Unit
		TG16C40	TG16C60	
V _{DRM}	Repetitive Peak Off-State Voltage	400	600	V

Symbol	Item	Conditions	Ratings	Unit
I _{T(RMS)}	R.M.S. On-State Current	T _j =83°C	16	A
I _{TSM}	Surge On-State Current	One cycle, 50Hz/60Hz, peak, non-repetitive	140/160	A
I ² t	I ² t	Value for one cycle of surge current	106	A ² S
P _{GM}	Peak Gate Power Dissipation		10	W
P _{G(AV)}	Average Gate Power Dissipation		1	W
I _{GM}	Peak Gate Current		3	A
V _{GM}	Peak Gate Voltage		10	V
di/dt	Critical Rate of Rise of On-State Current	I _G =100mA, T _j =25°C, V _D =1/2V _{DRM} , dI _G /dt=1A/μs	50	A/μs
T _j	Operating Junction Temperature		-25 to +125	°C
T _{stg}	Storage Temperature		-40 to +125	°C
V _{iso}	Isolation Breakdown Voltage (R.M.S.)	A.C.1 minute	2500	V
	Mounting Torque (M4)	Recommended Value 1.0-1.4 (10-14)	1.5 (15)	N·m (kgf·cm)
	Mass	Typical value (Excluding bolt, nut and wrapping material)	23	g

Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
I _{DRM}	Repetitive Peak Off-State Current, max	V _D =V _{DRM} , Single phase, half wave, T _j =125°C	3	mA
V _{TM}	Peak On-State Voltage, max	On-State Current [$\sqrt{2} \times I_{T(RMS)}$], Inst. measurement	1.5	V
I _{GT1} ⁺ 1	Gate Trigger Current, max	T _j =25°C, I _T =1A, V _D =6V	50	mA
I _{GT1} ⁻ 2		T _j =25°C, I _T =1A, V _D =6V	50	
I _{GT3} ⁺ 3			—	
I _{GT3} ⁻ 4		T _j =25°C, I _T =1A, V _D =6V	50	
V _{GT1} ⁺ 1	Gate Trigger Voltage, max	T _j =25°C, I _T =1A, V _D =6V	3	V
V _{GT1} ⁻ 2		T _j =25°C, I _T =1A, V _D =6V	3	
V _{GT3} ⁺ 3			—	
V _{GT3} ⁻ 4		T _j =25°C, I _T =1A, V _D =6V	3	
V _{GD}	Non-Trigger Gate Voltage, min	T _j =125°C, V _D =1/2V _{DRM}	0.2	V
t _{gt}	Turn On Time, max.	I _{T(RMS)} , I _G =100mA, V _D =1/2V _{DRM} , T _j =25°C, dI _G /dt=1A/μs	10	V
d _{v/dt}	Critical Rate of Rise on-State Voltage,min.	T _j =125°C, V _D =2/3V _{DRM} , Exponential wave.	50	V/μs
(d _{v/dt}) _c	Critical Rate of Rise off-State Voltage at commutation, min	T _j =125°C, V _D =2/3V _{DRM} , [d _{v/dt}] c=8A/ms	6	V/μs
I _H	Holding Current, typ.	T _j =25°C	30	mA
R _{th(j-c)}	Thermal Impedance, max	Junction to case	2.0	°C/W

Gate Characteristics**On-State Voltage****On State Current vs. Maximum Power Dissipation****On State Current vs. Allowable Case Temperature****Ambient temp. vs. RMS On-State Current****Surge On-State Current Rating (Non-Repetitive)****Transient Thermal Impedance**

TRIAC (ISOLATED TYPE)

TG25C/E/D

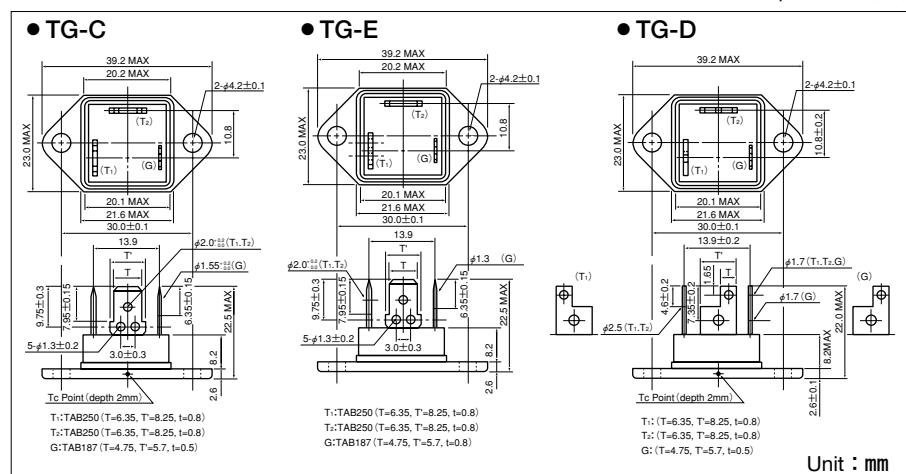
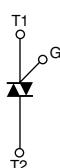
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UL;E76102(M)

TG25C/E/D are isolated molded triacs suitable for wide range of applications like copier, microwave oven, solid state switch, motor control, light control and heater control.

- $I_{T(AV)}$ 25A
- High surge capability 250A
- Isolated Nounting (AC2500V)
- Tab Terminals



Unit : mm

($T_j=25^\circ\text{C}$ unless otherwise specified)

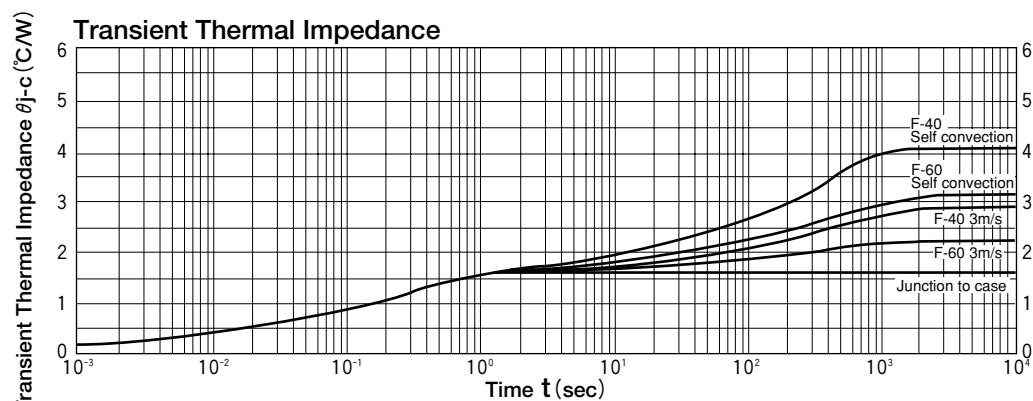
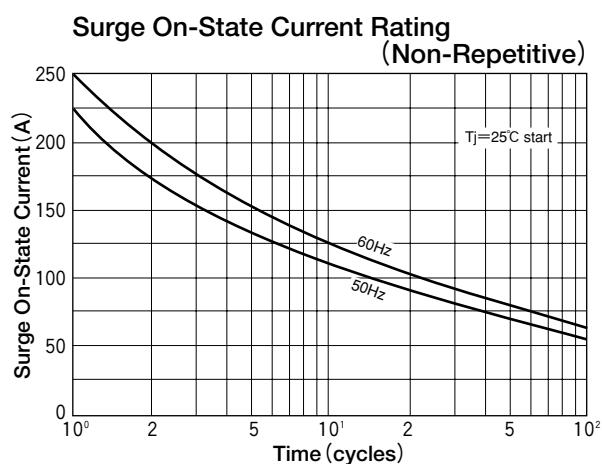
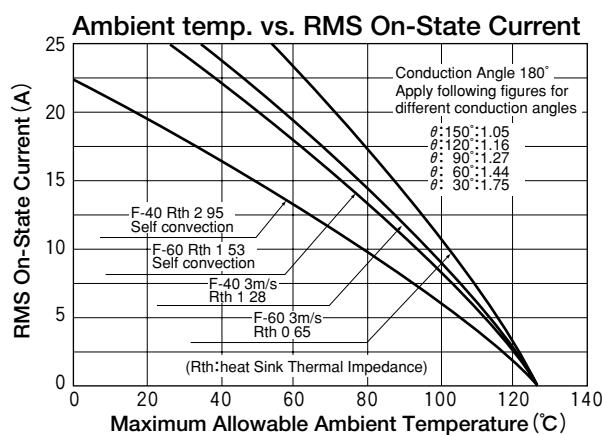
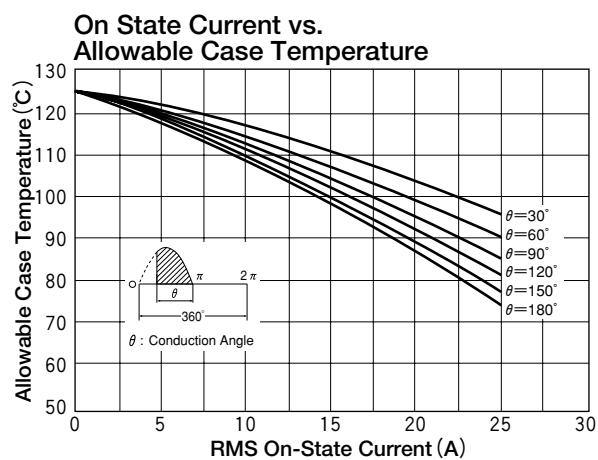
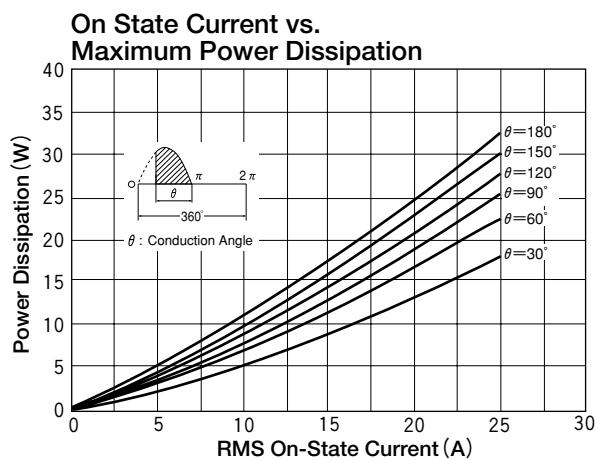
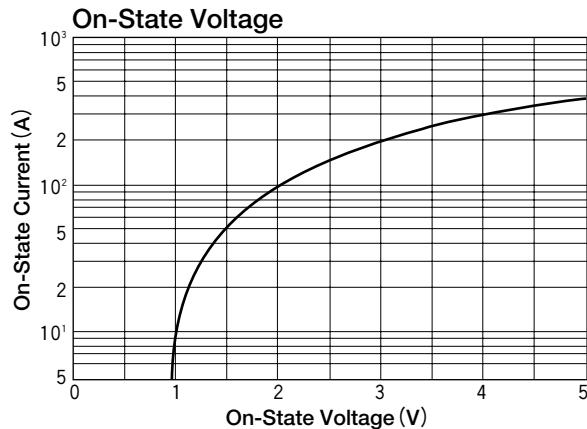
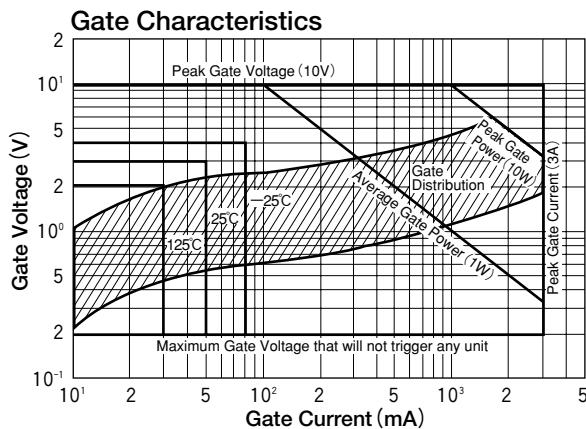
■ Maximum Ratings

Symbol	Item	Ratings		Unit
		TG25C40	TG25C60	
V_{DRM}	Repetitive Peak Off-State Voltage	400	600	V

Symbol	Item	Conditions	Ratings	Unit
$I_T(\text{RMS})$	R.M.S. On-State Current	$T_c=74^\circ\text{C}$	25	A
I_{TSM}	Surge On-State Current	One cycle, 50Hz/60Hz, peak, non-repetitive	220/250	A
I^2t	I^2t	Value for one cycle of surge current	260	A^2s
P_{GM}	Peak Gate Power Dissipation		10	W
$P_{G(\text{AV})}$	Average Gate Power Dissipation		1	W
I_{GM}	Peak Gate Current		3	A
V_{GM}	Peak Gate Voltage		10	V
di/dt	Critical Rate of Rise of On-State Current	$I_G=100\text{mA}, T_j=25^\circ\text{C}, V_D=\frac{1}{2}V_{DRM}, di/dt=1\text{A}/\mu\text{s}$	50	$\text{A}/\mu\text{s}$
T_j	Operating Junction Temperature		-25 to +125	$^\circ\text{C}$
T_{stg}	Storage Temperature		-40 to +125	$^\circ\text{C}$
V_{iso}	Isolation Breakdown Voltage (R.M.S.)	A.C.1 minute	2500	V
	Mounting Torque (M4)	Recommended Value 1.0-1.4 (10-14)	1.5 (15)	$\text{N}\cdot\text{m}$ (kgf·cm)
	Mass	Typical value (Excluding bolt, nut and wrapping material)	27	g

■ Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
I_{DRM}	Repetitive Peak Off-State Current, max	$V_D=V_{DRM}$, Single phase, half wave, $T_j=125^\circ\text{C}$	5	mA
V_{TM}	Peak On-State Voltage, max	On-State Current [$\sqrt{2} \times I_{T(\text{RMS})}$], Inst. measurement	1.4	V
$ I_{GT1}^+ $	Gate Trigger Current, max	$T_j=25^\circ\text{C}, I_T=1\text{A}, V_D=6\text{V}$	50	mA
$ I_{GT1}^- $		$T_j=25^\circ\text{C}, I_T=1\text{A}, V_D=6\text{V}$	50	
$ I_{GT3}^+ $			—	
$ I_{GT3}^- $		$T_j=25^\circ\text{C}, I_T=1\text{A}, V_D=6\text{V}$	50	
V_{GT1}^+	Gate Trigger Voltage, max	$T_j=25^\circ\text{C}, I_T=1\text{A}, V_D=6\text{V}$	3	V
V_{GT1}^-		$T_j=25^\circ\text{C}, I_T=1\text{A}, V_D=6\text{V}$	3	
V_{GT3}^+			—	
V_{GT3}^-		$T_j=25^\circ\text{C}, I_T=1\text{A}, V_D=6\text{V}$	3	
V_{GD}	Non-Trigger Gate Voltage, min	$T_j=125^\circ\text{C}, V_D=\frac{1}{2}V_{DRM}$	0.2	V
tgt	Turn On Time, max.	$I_{T(\text{RMS})}, I_G=100\text{mA}, V_D=\frac{1}{2}V_{DRM}, T_j=25^\circ\text{C}, di/dt=1\text{A}/\mu\text{s}$	10	V
dv/dt	Critical Rate of Rise on-State Voltage,min.	$T_j=125^\circ\text{C}, V_D=\frac{2}{3}V_{DRM}$, Exponential wave.	50	$\text{V}/\mu\text{s}$
$(dv/dt)c$	Critical Rate of Rise off-State Voltage at commutation, min	$T_j=125^\circ\text{C}, V_D=\frac{2}{3}V_{DRM}$, $[di/dt] c=15\text{A}/\text{ms}$	6	$\text{V}/\mu\text{s}$
I_H	Holding Current, typ.	$T_j=25^\circ\text{C}$	30	mA
$R_{th(j-c)}$	Thermal Impedance, max	Junction to case	1.6	$^\circ\text{C}/\text{W}$



TRIAC (ISOLATED TYPE)

TG35C/E/D

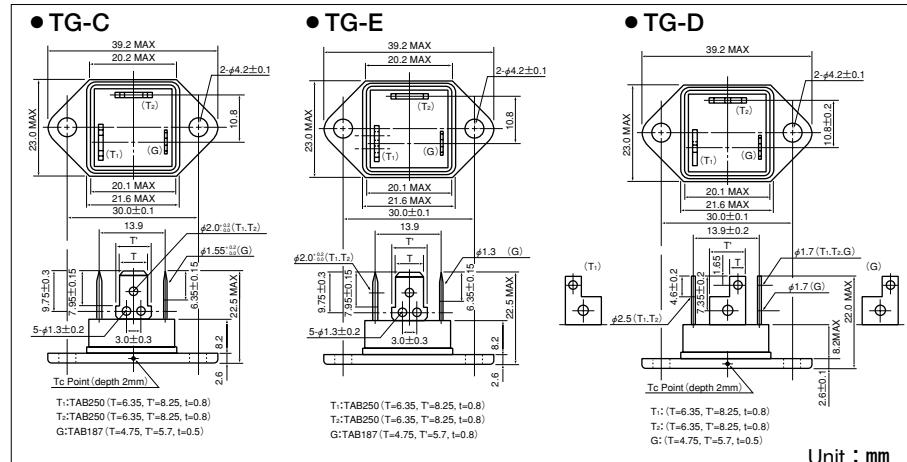
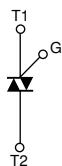
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UL:E76102(M)

TG35C/E/D are isolated molded triacs suitable for wide range of applications like copier, microwave oven, solid state switch, motor control, light control and heater control.

- $I_{T(AV)}$ 35A
- High surge capability 330A
- Isolated Nounting (AC2500V)
- Tab Terminals



■ Maximum Ratings

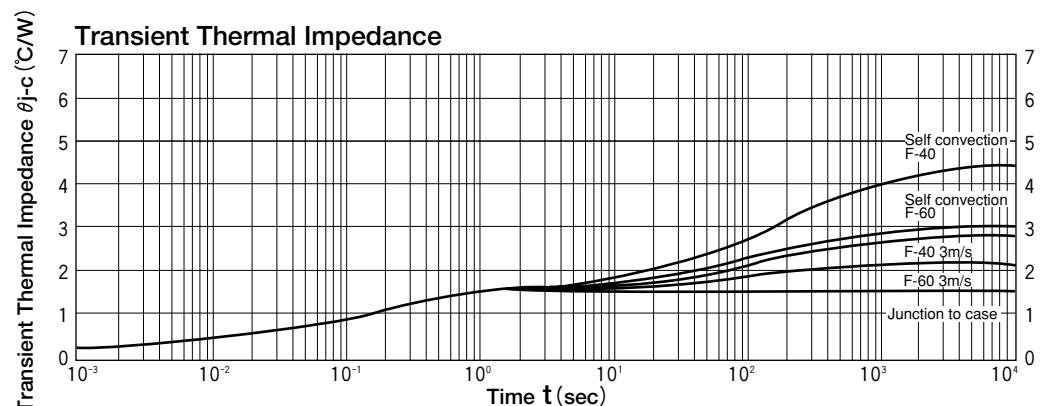
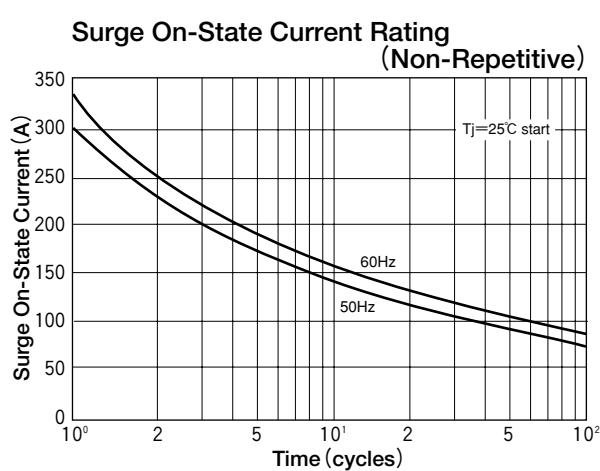
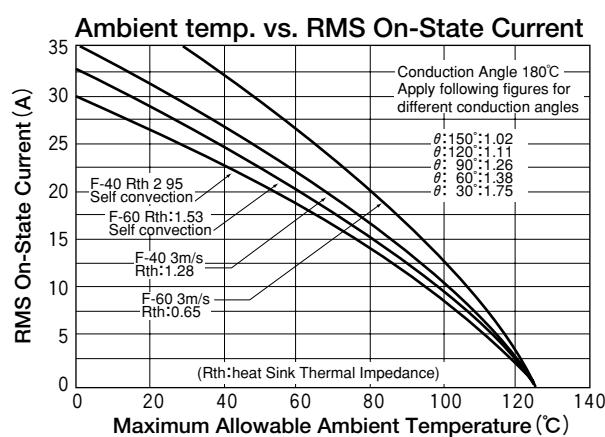
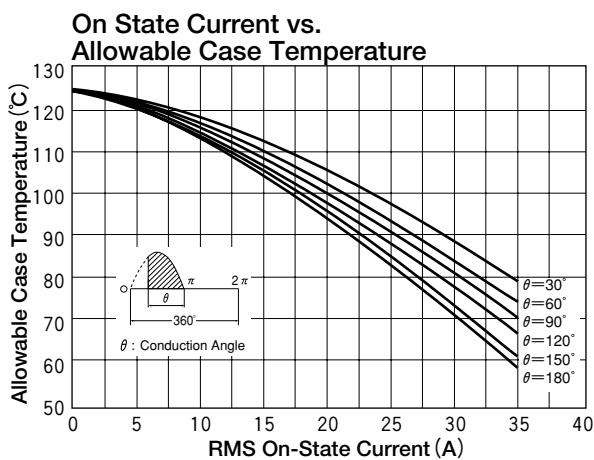
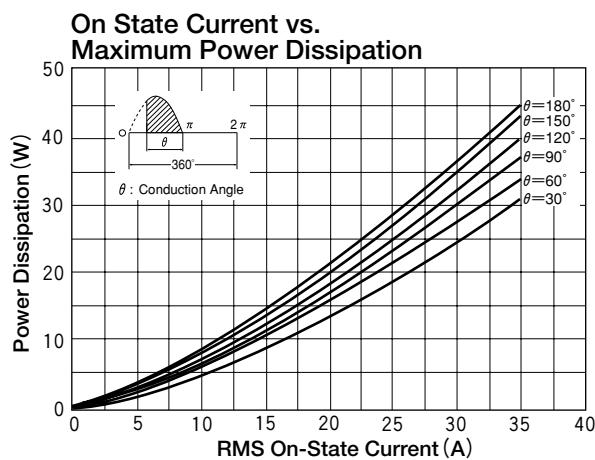
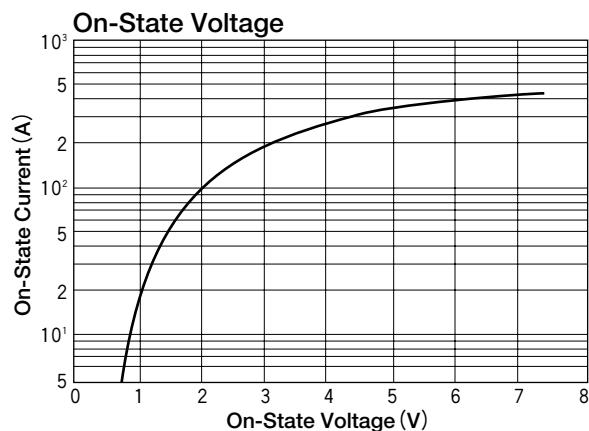
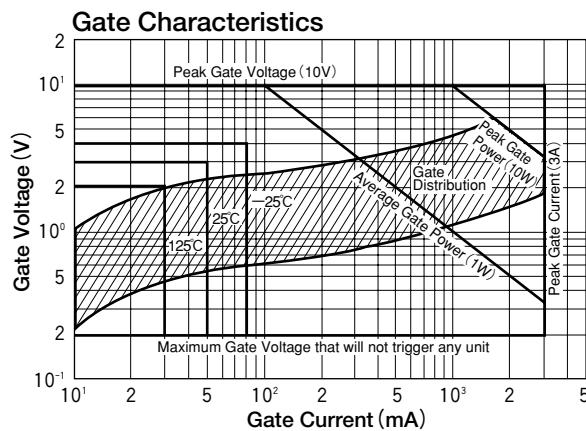
($T_j=25^\circ\text{C}$ unless otherwise specified)

Symbol	Item	Ratings		Unit
		TG35C40	TG35C60	
V_{DRM}	Repetitive Peak Off-State Voltage	400	600	V

Symbol	Item	Conditions	Ratings	Unit
$I_{T(RMS)}$	R.M.S. On-State Current	$T_c=58^\circ\text{C}$	35	A
I_{TSW}	Surge On-State Current	One cycle, 50Hz/60Hz, peak, non-repetitive	300/330	A
I^2t	I^2t	Value for one cycle of surge current	450	A^2s
P_{GM}	Peak Gate Power Dissipation		10	W
$P_{G(AV)}$	Average Gate Power Dissipation		1	W
I_{GM}	Peak Gate Current		3	A
V_{GM}	Peak Gate Voltage		10	V
di/dt	Critical Rate of Rise of On-State Current	$I_G=100\text{mA}, T_j=25^\circ\text{C}, V_D=\frac{1}{2}V_{DRM}, di/dt=1\text{A}/\mu\text{s}$	50	$\text{A}/\mu\text{s}$
T_j	Operating Junction Temperature		-25 to +125	$^\circ\text{C}$
T_{stg}	Storage Temperature		-40 to +125	$^\circ\text{C}$
V_{iso}	Isolation Breakdown Voltage (R.M.S.)	A.C.1 minute	2500	V
	Mounting Torque (M4)	Recommended Value 1.0-1.4 (10-14)	1.5 (15)	$\text{N}\cdot\text{m}$ (kgf·cm)
	Mass	Typical value (Excluding bolt, nut and wrapping material)	23	g

■ Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
I_{DRM}	Repetitive Peak Off-State Current, max	$V_D=V_{DRM}$, Single phase, half wave, $T_j=125^\circ\text{C}$	5	mA
V_{TM}	Peak On-State Voltage, max	On-State Current [$\sqrt{2} \times I_{T(RMS)}$], Inst. measurement	1.4	V
I_{GT1}^+	Gate Trigger Current, max	$T_j=25^\circ\text{C}, I_T=1\text{A}, V_D=6\text{V}$	50	mA
I_{GT1}^-		$T_j=25^\circ\text{C}, I_T=1\text{A}, V_D=6\text{V}$	50	
I_{GT3}^+			—	
I_{GT3}^-		$T_j=25^\circ\text{C}, I_T=1\text{A}, V_D=6\text{V}$	50	
V_{GT1}^+	Gate Trigger Voltage, max	$T_j=25^\circ\text{C}, I_T=1\text{A}, V_D=6\text{V}$	3	V
V_{GT1}^-		$T_j=25^\circ\text{C}, I_T=1\text{A}, V_D=6\text{V}$	3	
V_{GT3}^+			—	
V_{GT3}^-		$T_j=25^\circ\text{C}, I_T=1\text{A}, V_D=6\text{V}$	3	
V_{GD}	Non-Trigger Gate Voltage, min	$T_j=125^\circ\text{C}, V_D=\frac{1}{2}V_{DRM}$	0.2	V
tgt	Turn On Time, max.	$I_{T(RMS)}, I_G=100\text{mA}, V_D=\frac{1}{2}V_{DRM}, T_j=25^\circ\text{C}, di/dt=1\text{A}/\mu\text{s}$	10	V
dv/dt	Critical Rate of Rise on-State Voltage,min.	$T_j=125^\circ\text{C}, V_D=\frac{2}{3}V_{DRM}$, Exponential wave.	20	$\text{V}/\mu\text{s}$
$(dv/dt)c$	Critical Rate of Rise off-State Voltage at commutation, min	$T_j=125^\circ\text{C}, V_D=\frac{2}{3}V_{DRM}, [di/dt] c=15\text{A}/\text{ms}$	5	$\text{V}/\mu\text{s}$
I_H	Holding Current, typ.	$T_j=25^\circ\text{C}$	30	mA
$R_{th(j-c)}$	Thermal Impedance, max	Junction to case	1.5	$^\circ\text{C}/\text{W}$



TRIAC (ISOLATED TYPE)

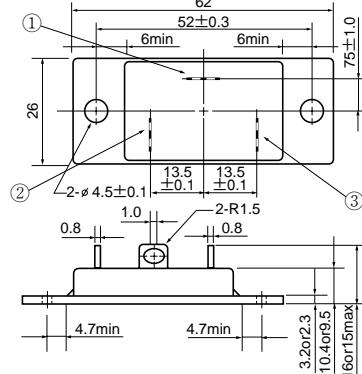
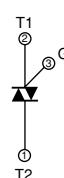
TG70AA40/60

TOP



TG70AA40/60 are isolated mould triac suitable for wide range of applications like copier, microwave oven, solid state switch, motor control, light control and heater control.

- $I_{T(AV)}$ 70A
- High surge capability 600A
- Isolated Nounting (AC650V)
- Tab Terminals



Unit : mm

($T_j=25^\circ\text{C}$ unless otherwise specified)

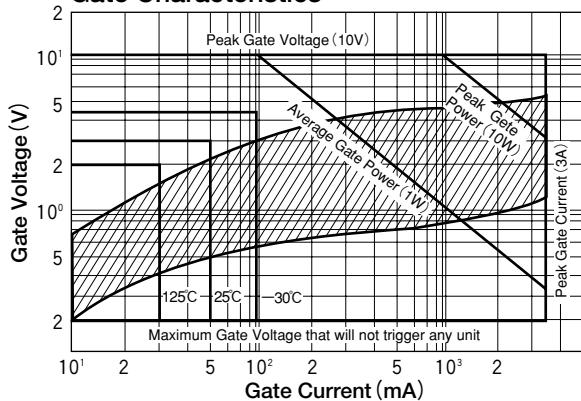
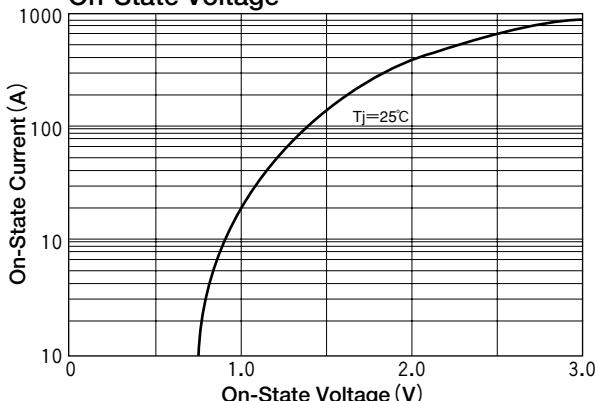
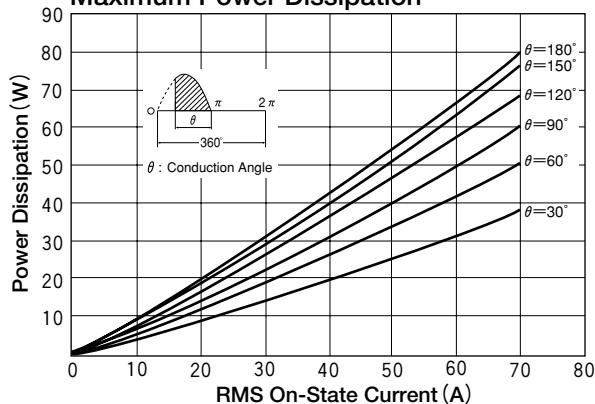
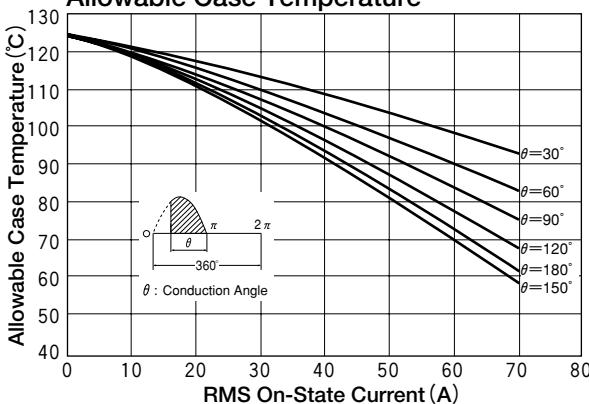
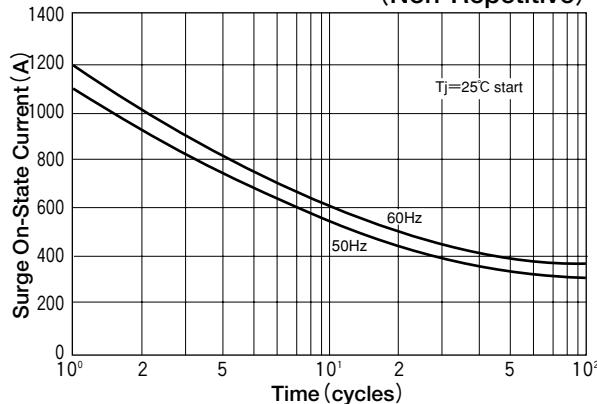
■ Maximum Ratings

Symbol	Item	Ratings		Unit
		TG70AA40	TG70AA60	
V_{DRM}	Repetitive Peak Off-State Voltage	400	600	V
V_{DSM}	Non-Repetitive Peak Off-State Voltage	450	650	V

Symbol	Item	Conditions	Ratings	Unit
$I_{T(RMS)}$	R.M.S. On-State Current	$T_c=58^\circ\text{C}$	70	A
I_{tSM}	Surge On-State Current	One cycle, 50Hz/60Hz, peak, non-repetitive	1080/1200	A
I^2t	I^2t		6000	A^2s
P_{GM}	Peak Gate Power Dissipation		10	W
$P_{G(AV)}$	Average Gate Power Dissipation		1	W
I_{GM}	Peak Gate Current		3	A
V_{GM}	Peak Gate Voltage		10	V
di/dt	Critical Rate of Rise of On-State Current	$I_G=100\text{mA}, T_j=25^\circ\text{C}, V_D=\frac{1}{2}V_{DRM}, di/dt=1\text{A}/\mu\text{s}$	50	$\text{A}/\mu\text{s}$
T_j	Operating Junction Temperature		-40 to +125	$^\circ\text{C}$
T_{stg}	Storage Temperature		-40 to +125	$^\circ\text{C}$
V_{iso}	Isolation Breakdown Voltage (R.M.S.)	A.C.1 minute	2500	V
	Mounting Torque (Mounting M4)	Recommended Value 1.0-1.4 (10-14)	1.5 (15)	$\text{N}\cdot\text{m}$ ($\text{kgf}\cdot\text{cm}$)
	Mass			g

■ Electrical Characteristics

Symbol	Item	Conditions	Ratings			Unit
			Min.	Typ.	Max.	
I_{DRM}	Repetitive Peak Off-State Current	$V_D=V_{DRM}$, Single phase, half wave, $T_j=125^\circ\text{C}$			10	mA
V_{TM}	Peak On-State Voltage	On-State Current, 100A, $I_t=25\text{A}$, Inst. measurement			1.35	V
I_{GT1}^+	1	Gate Trigger Current	$T_j=25^\circ\text{C}, I_t=1\text{A}, V_D=6\text{V}$		50	mA
I_{GT1}^-	2		$T_j=25^\circ\text{C}, I_t=1\text{A}, V_D=6\text{V}$		50	
I_{GT3}^+	3					
I_{GT3}^-	4		$T_j=25^\circ\text{C}, I_t=1\text{A}, V_D=6\text{V}$		50	
V_{GT1}^+	1	Gate Trigger Voltage	$T_j=25^\circ\text{C}, I_t=1\text{A}, V_D=6\text{V}$		3	V
V_{GT1}^-	2		$T_j=25^\circ\text{C}, I_t=1\text{A}, V_D=6\text{V}$		3	
V_{GT3}^+	3					
V_{GT3}^-	4		$T_j=25^\circ\text{C}, I_t=1\text{A}, V_D=6\text{V}$		3	
V_{GD}	Non-Trigger Gate Voltage	$T_j=125^\circ\text{C}, V_D=\frac{1}{2}V_{DRM}$	0.2			V
dv/dt	Critical Rate of Rise on-State Voltage,min.	$T_j=125^\circ\text{C}, V_D=\frac{2}{3}V_{DRM}$, Exponential wave.	50			$\text{V}/\mu\text{s}$
$[dv/dt]_c$	Critical Rate of Rise off-State Voltage at commutation	$T_j=125^\circ\text{C}, V_D=\frac{2}{3}V_{DRM}, [dv/dt]_c=8\text{A}/\text{ms}$	6			$\text{V}/\mu\text{s}$
I_H	Holding Current	$T_j=25^\circ\text{C}$		50	100	mA
$R_{th(j-c)}$	Thermal Impedance	Junction to case			0.83	$^\circ\text{C}/\text{W}$

Gate Characteristics**On-State Voltage****On State Current vs.
Maximum Power Dissipation****On State Current vs.
Allowable Case Temperature****Surge On-State Current Rating
(Non-Repetitive)****Transient Thermal Impedance**