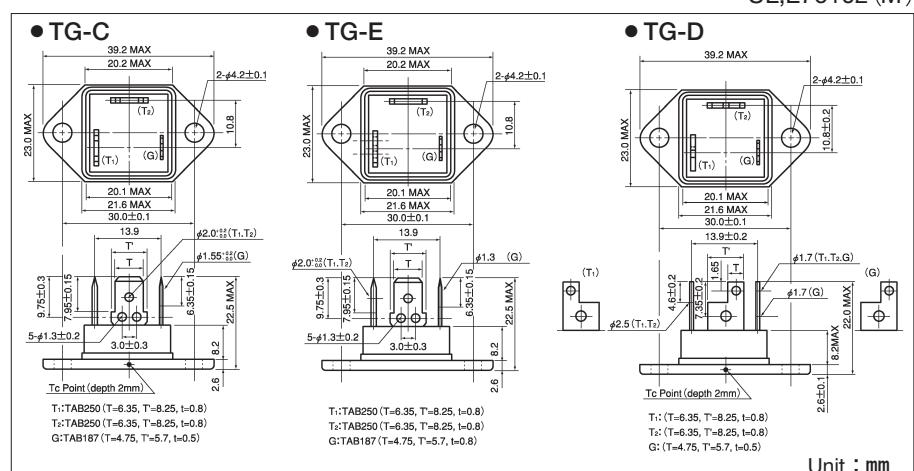
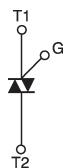


TRIAC (ISOLATED TYPE)

TG35C/E/D

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

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	$T_c=58^\circ C$	35	A
I_{TSM}	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
PGM	Peak Gate Power Dissipation		10	W
$PG(AV)$	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	$I_G=100mA, T_j=25^\circ C, V_D=\frac{1}{2}V_{DRM}, di/dt=1A/\mu s$	50	$A/\mu s$
T_j	Operating Junction Temperature		-25~+125	$^\circ C$
T_{stg}	Storage Temperature		-40~+125	$^\circ C$
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)	$kgf \cdot cm$
	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, $T_j=125^\circ C$	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	$T_j=25^\circ C, I_T=1A, V_D=6V$	50	mA
I_{GT1}^-		$T_j=25^\circ C, I_T=1A, V_D=6V$	50	
I_{GT3}^+			—	
I_{GT3}^-		$T_j=25^\circ C, I_T=1A, V_D=6V$	50	
V_{GT1}^+	Gate Trigger Voltage, max	$T_j=25^\circ C, I_T=1A, V_D=6V$	3	V
V_{GT1}^-		$T_j=25^\circ C, I_T=1A, V_D=6V$	3	
V_{GT3}^+			—	
V_{GT3}^-		$T_j=25^\circ C, I_T=1A, V_D=6V$	3	
V_{GD}	Non-Trigger Gate Voltage, min	$T_j=125^\circ C, V_D=\frac{1}{2}V_{DRM}$	0.2	V
tgt	Turn On Time, max.	$I_{T(RMS)}, I_G=100mA, V_D=\frac{1}{2}V_{DRM}, T_j=25^\circ C, di/dt=1A/\mu s$	10	V
dv/dt	Critical Rate of Rise on-State Voltage,min.	$T_j=125^\circ C, V_D=\frac{2}{3}V_{DRM}$, Exponential wave.	20	$V/\mu s$
$(dv/dt)_c$	Critical Rate of Rise off-State Voltage at commutation, min	$T_j=125^\circ C, V_D=\frac{2}{3}V_{DRM}, [di/dt]_c=15A/ms$	5	$V/\mu s$
I_H	Holding Current, typ.	$T_j=25^\circ C$	30	mA
$R_{th(j-c)}$	Thermal Impedance, max	Junction to case	1.5	$^\circ C/W$

