

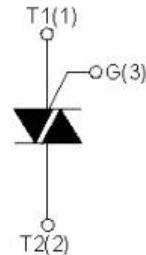
PRODUCT FEATURES

- Isolated molded triacs
- $I_{T(AV)}$ 25A
- High surge capability 300A
- Isolated Mounting(AC2500V)
- Tab terminals



APPLICATIONS

- Microwave oven
- Copier
- Solid state switch
- Motor control
- Light control
- Heater control



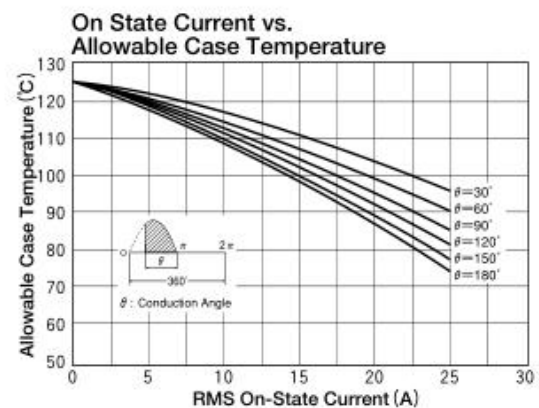
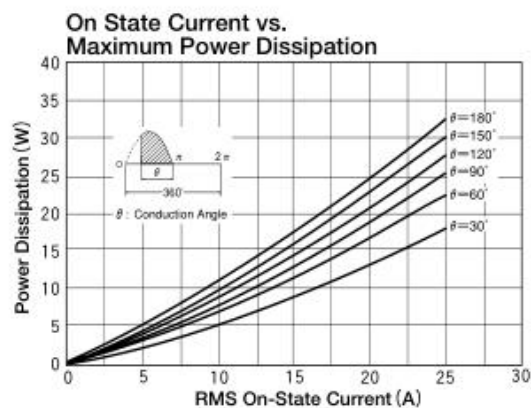
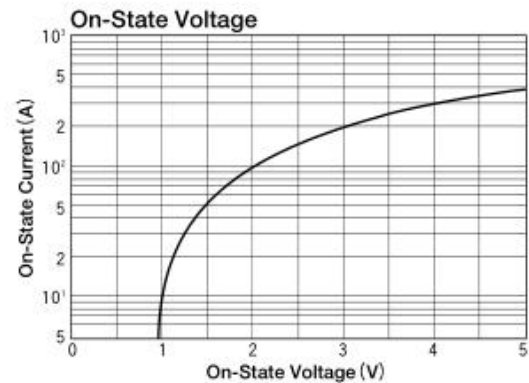
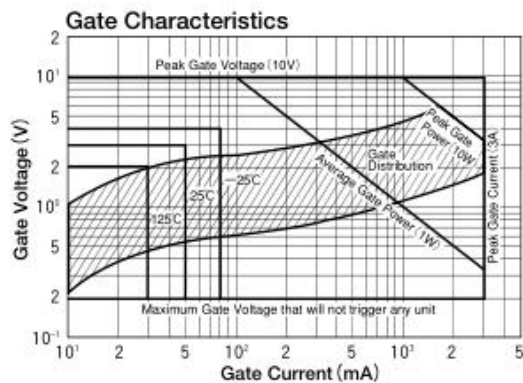
ABSOLUTE MAXIMUM RATINGS

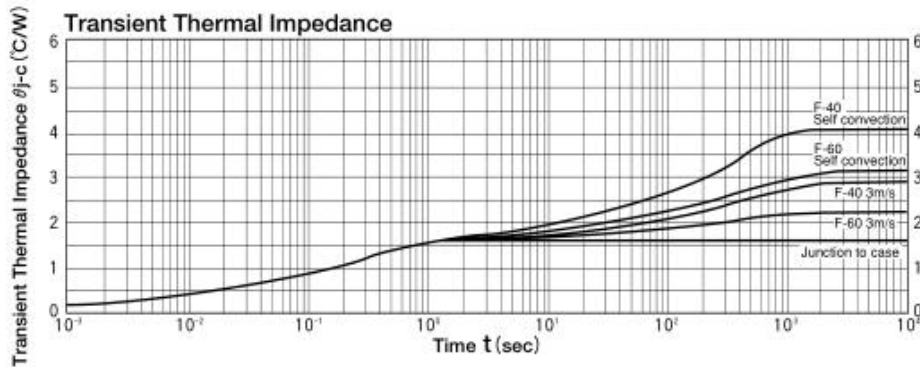
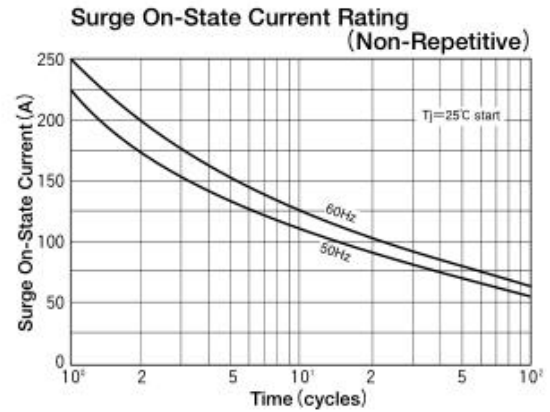
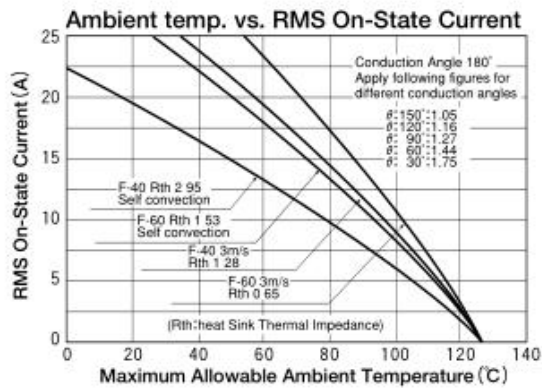
$T_C=25^{\circ}\text{C}$ unless otherwise specified

Symbol	Parameter	Test Conditions	Values	Unit
V_{DRM}	Repetitive Peak Off-State Voltage		600	V
$I_{T(RMS)}$	R.M.S. On-State Current	$T_C=80^{\circ}\text{C}$	25	A
I_{TSM}	Surge On-State Current	One cycle 50/60Hz	270/300	A
I^2t	I^2t (For Fusing)		360	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	$T_J = 25^{\circ}\text{C}, V_D = 1/2 V_{DRM}$	50	A/us
T_J	Junction Temperature		-25 to +125	$^{\circ}\text{C}$
T_{STG}	Storage Temperature Range		-40 to +125	$^{\circ}\text{C}$
V_{isol}		a.c. 50Hz, r.m.s, 1min	2500	V~
Torque	Mounting torque	Recommended value	1.0-1.4 (10-14)	Nm(kgf $\cdot$ cm)
Weight			27	g

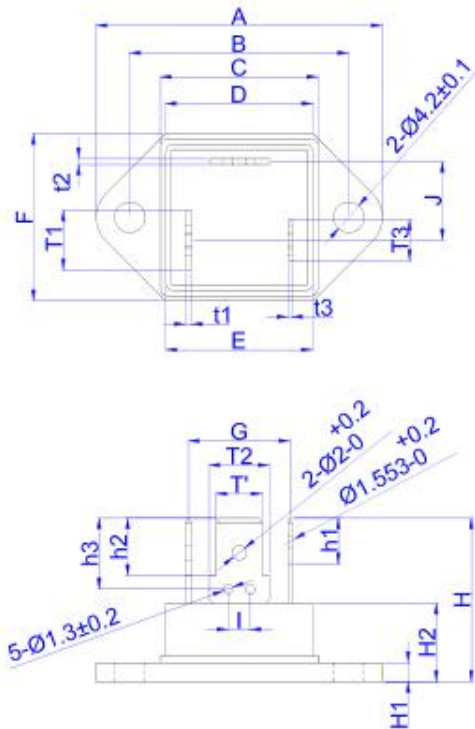
Electrical Characteristics

Symbol	Parameter		Test Conditions	Values	Unit
I _{DRM}	Repetitive Peak Off-State Current,max		Single phase ,T _J =125°C	3	mA
V _{TM}	Peak On-State Voltage,max		On-State Current	1.35	V
I _{GT1} ⁺	1	Gate trigger current,max	T _J = 25°C,I _T = 1 A,V _D = 6V	50	mA
I _{GT1} ⁻	2		T _J = 25°C,I _T = 1 A,V _D = 6V	50	
I _{GT3} ⁺	3				
I _{GT3} ⁻	4		T _J = 25°C,I _T = 1 A,V _D = 6V	50	
V _{GT1} ⁺	1	Gate trigger Voltage,max	T _J = 25°C,I _T = 1 A,V _D = 6V	2.5	V
V _{GT1} ⁻	2		T _J = 25°C,I _T = 1 A,V _D = 6V	2.5	
V _{GT3} ⁺	3				
V _{GT3} ⁻	4		T _J = 25°C,I _T = 1 A,V _D = 6V	2.5	
V _{GD}	Non-trigger gate voltage ,min		T _J =125°C,V _D = 1/2 V _{DRM}	0.2	V
T _{gt}	Turn on time,max		I _{T(RMS)} I _G = 100mA,T _J = 25°C	10	V
dv/dt	Critical Rate of Rise off-State voltage		T _J =125°C,V _D = 2/3 V _{DRM}	100	A/us
(dv/dt) c	Critical Rate of Rise off-State voltage at commutation ,min		T _J =125°C,V _D = 2/3 V _{DRM} (di/dt) c=15A/ms	10	A/us
I _H	Holding current,typ.		T _J = 25°C	30	mA
R _{θJC}	Thermal impedance ,max		Junction-to-Case	1.5	°C /W





TG-C PACKAGE:



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A			39.2			1.543
B	29.8	30.0	30.2	1.173	1.181	1.189
C			21.6			0.85
D			20.2			0.795
E			20.5			0.791
F			23			0.906
T1, T2		8.10			0.318	
T3		5.65			0.222	
T'		6.35			0.25	
t1, t2		0.8			0.031	
t3		0.6			0.023	
G		13.9			0.547	
H1		2.6			0.102	
H2		10.8			0.425	
H			22.8			0.886
h1	6.2	6.35	6.5	0.244	0.25	0.256
h2	7.8	7.95	8.1	0.307	0.313	0.319
h3	9.45	9.75	10.05	0.372	0.384	0.396
I	2.7	3.0	3.3	0.106	0.118	0.130
J		10.8			0.425	