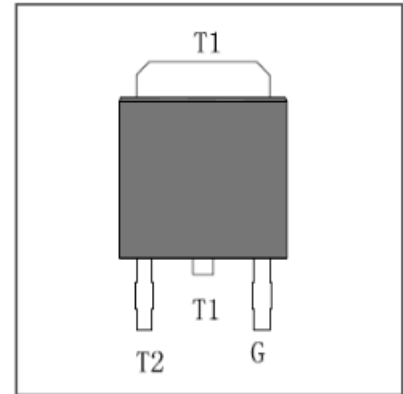


Features:

- * Back multilayer metal electrode
- * High temperature reliability
- * Glass Passivated junction chips
- * NPNPN Bi-direction Triac

Application: Power tool ,moto speed controller,
Vacuum cleaner,heating temperature controller,
Solid state relay and phase control circuits.


●ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
RMS on-state current(full sine wave) Tc=90°C	$I_{T(RMS)}$ Tc=90°C	8	A
Non repetitive surge peak on-state current(full cycle,Tj=25°C) F=50HZ tp=20ms	I_{TSM} F=50HZ tp=20ms	65	A
I ² t Value for fusing tp=10ms	I^2t tp=10ms	21	A ² S
Critical rate of rise of on-state current IG=2*IGT,tr<100ns,f=120Hz,Tj=125°C	di/dt Tj=150°C	50	A/us
Repetitive Peak Off-state Voltage Tj=25°C Repetitive Peak Reverse Voltage	V _{DRM} /V _{RPM} Tj=25°C	600	V
Peak gate current tp=20us Tj=150°C	I _{GM} tp=20us Tj=150°C	2	A
Average gate power dissipation Tj=150°C	P _{G(AV)} Tj=150°C	1	W
Storage junction temperature range Operating junction temperature range	T _{stg} T _j	-40to+150 -40to+125	°C

●Electrical Characteristics(3 quadrant) (Tj=25°C , unless otherwise specified)

Symbol	Test Condition	Quadrant		Value		Unit
				I II III	IV	
I _{GT}	V _D =12V R _L =100Ω	I II III IV	MAX	10	25	mA
V _{GT}				1.5		
V _{GD}	T _j =150°C		MIN	0.25		V
I _H	I _T =0.5A		MAX	60		mA
I _L	V _D =12V I _{GT} =1.2A	I -IV	MAX	60		mA
		II		100		
dv/dt	V _D =2/3V _{DRM} T _j =125°C	MIN	500		V/us	
(dv/dt) _c	T _j =125°C	MIN	10		V/us	

●Static Characteristics

Symbol	Test Condition		Value	Unit
V _{TM}	I _{TM} = 10A T _j =25°C	MAX	1.5	V
V _{TO}	T _j =125°C	MAX	0.86	V
R _d	T _j =150°C	MAX	36.6	mΩ
I _{DRM} I _{RRM}	T _j =25°C T _j =125°C	MAX	5	uA
			1	mA
R _{th(j-c)}			1.25	°C/W

- TO-252 Mechanical Dimension(in mm)

