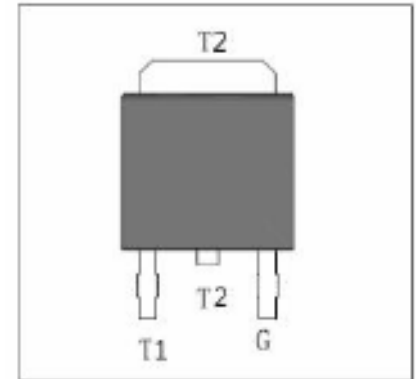


**Features:**

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

**Application:**

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

**TO-263**


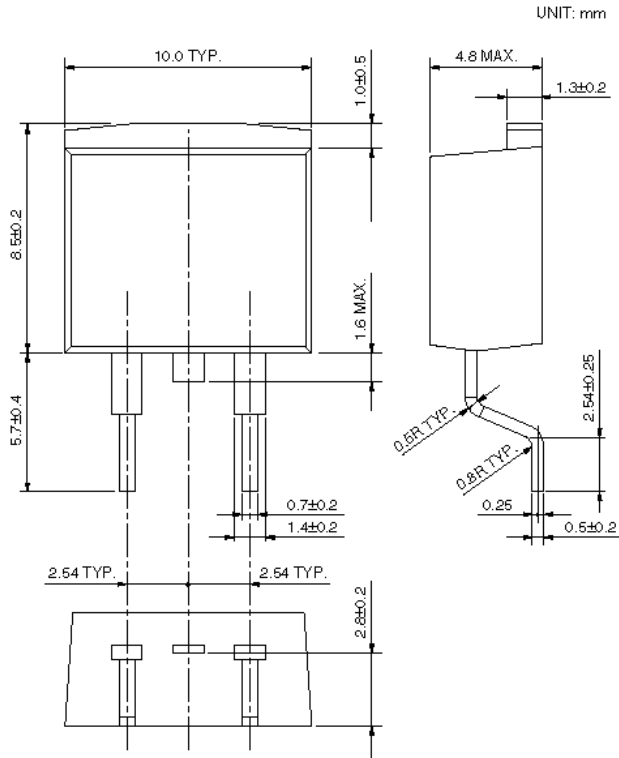
Symbol	Absolute maximum ratings Parameters		Value	Unit
$I_{T(RMS)}$	RMS on-state current	$T_c=90^{\circ}C$	16	A
$I_{TSM}$	Non repetitive surge peak on-state current	F=50HZ    t=20ms	160	A
$I^2t$	$I^2t$ value for fusing	$t_p=10ms$	144	A <sup>2</sup> S
di/dt	Critical rate of rise of on-state current	$T_j=125^{\circ}C$	50	A/us
$V_{DRM}/V_{RRM}$	Non repetitive surge peak off-state voltage	$T_j=25^{\circ}C$	600	V
$I_{GM}$	Peak gate current	$T_j=125^{\circ}C$	4	A
$P_{G(AV)}$	Average gate power dissipation	$T_j=125^{\circ}C$	1	W
$T_{stg}$	Storage junction temperature range		-40℃~+150℃	℃
$T_j$	Operating junction temperature range(150℃ only suitable for B and C type)		-40℃+ 125℃	℃

**Electrical Characteristics(4 quadrant) (T<sub>j</sub>=25 °C , unless otherwise specified)**

Symbol	Test Condition	Quadrant		Value	Unit
I <sub>GT</sub>	V <sub>D</sub> =12V R <sub>L</sub> =100Ω	I II III IV	MAX	70	mA
V <sub>GT</sub>			MAX	1.5	V
V <sub>GD</sub>	T <sub>j</sub> =125°C		MIN	0.2	V
I <sub>H</sub>	I <sub>T</sub> =0.5A		MAX	60	mA
I <sub>L</sub>	I <sub>G</sub> =1.2I <sub>GT</sub>	MAX		60	mA
				100	
dv/dt	V <sub>D</sub> =2/3V <sub>DRM</sub> T <sub>j</sub> =125°C	MIN		500	V/us
(dv/dt) <sub>c</sub>	T <sub>j</sub> =125°C	MIN		10	V/us

**Static Characteristics**

Symbol	Test Condition			Value	Unit
V <sub>TM</sub>	I <sub>TM</sub> =32A	T <sub>j</sub> =25°C	MAX	1.5	V
V <sub>T0</sub>	Threshold voltage	T <sub>j</sub> =125°C	MAX	0.87	V
R <sub>d</sub>	Dynamic resistance	T <sub>j</sub> =125°C	MAX	14.6	mΩ
I <sub>DRM</sub> I <sub>RRM</sub>	V <sub>DRM</sub> = V <sub>DRM</sub>	T <sub>j</sub> =25°C	MAX	5	uA
		T <sub>j</sub> =125°C		1	mA
R <sub>th(j-c)</sub>	Junction to case (AC)			2.1	°C/W

**● TO-263 Dimensions**


: The area without solder plated

