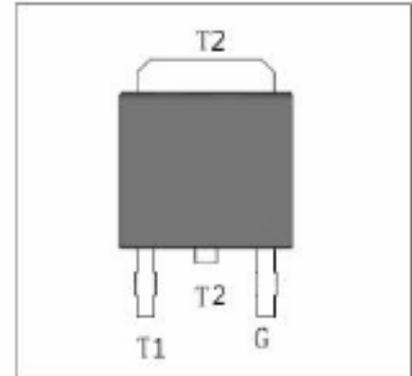


Features:

- * 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

Symbol	Absolute maximum ratings Parameters		Value	Unit
$I_{T(RMS)}$	RMS on-state current	$T_c=90^{\circ}C$	4	A
I_{TSM}	Non repetitive surge peak on-state current	$F=50HZ$ $t=20ms$	40	A
I^2t	I^2t value for fusing	$t_p=10ms$	8	A ² 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	$t_p=20us$ $T_j=125^{\circ}C$	4	A
$P_{G(AV)}$	Average gate power dissipation	$T_j=125^{\circ}C$	0.5	W
T_{stg} T_j	Storage junction temperature range Operating junction temperature range		-40~+150 -40~+125	$^{\circ}C$

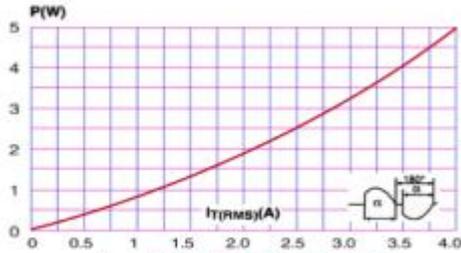
● **Electrical Characteristics(3 quadrant) (T_j=25°C,unless otherwise specified)**

Symbol	Test Condition	Quadrant		Value	Unit
I _{GT}	V _D =12V R _L =100Ω	I II III	MAX	5	mA
V _{GT}			MAX	1.5	V
V _{GD}	T _j =125°C		MIN	0.20	V
I _H	I _T =0.5A		MAX	35	mA
I _L	I _G =1.2I _{GT}		MAX	35	mA
dv/dt	V _D =2/3V _{DRM} T _j =125°C		MIN	500	V/us

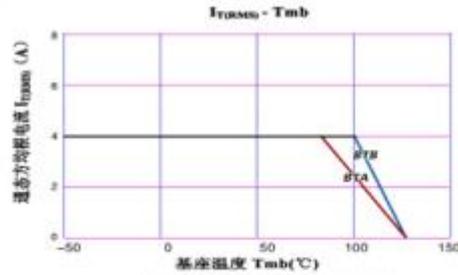
● **Static Characteristics**

Symbol	Test Condition		Value	Unit
V _{TM}	I _{TM} = 8 A	MAX	1.5	V
	TA=25°C			
V _{TO}	T _j =125°C	MAX	0.92	V
R _d	T _j =125°C	MAX	36.6	mΩ
I _{DRM}	T _j =25°C	MAX	5	uA
I _{RPM}	T _j =125°C		0.5	mA
R _{th(j-c)}			1.75	°C/W

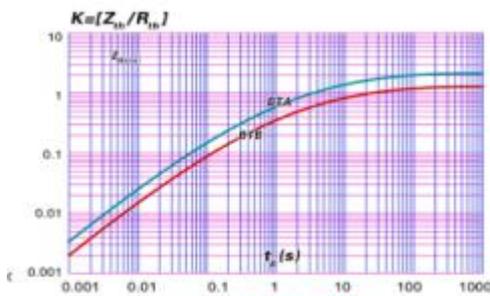
Electrical Characteristic Curve



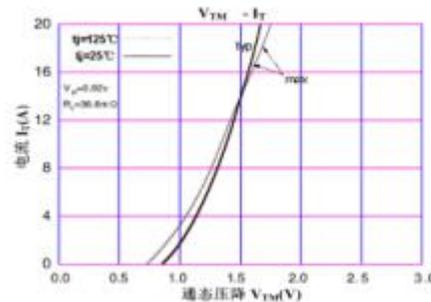
1、功耗与电流曲线 (180°C)



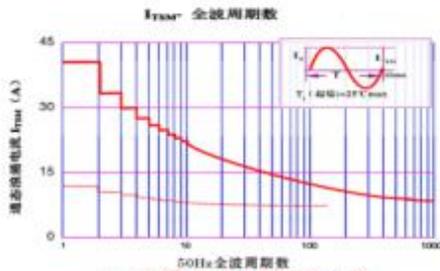
2、亮温与通态方均根电流曲线



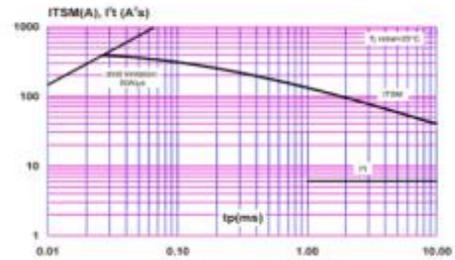
3、瞬态热阻曲线



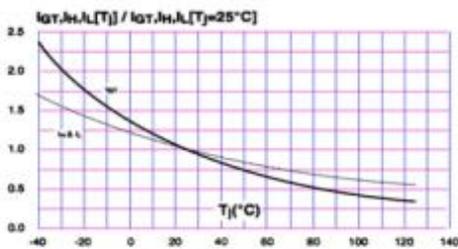
4、通态伏安特性曲线



5、浪涌电流与周波数曲线



6、 $I_{TSM}-t, I^2t-t$ 曲线



7、门极触发特性曲线

● TO-252 Mechanical Dimension(in mm)

