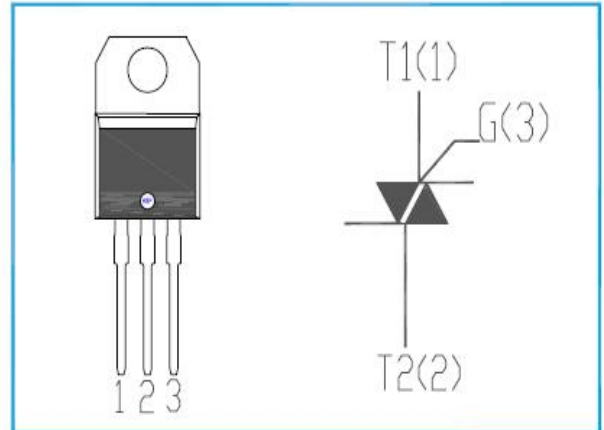


Features:

- * 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.



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 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	$T_j=25^{\circ}C$	800	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℃	℃

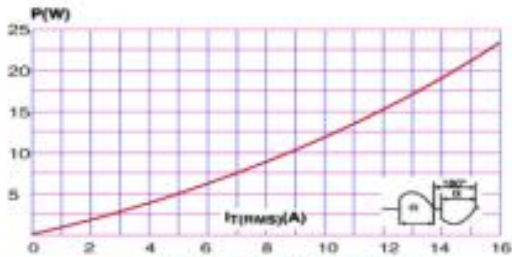
Electrical Characteristics(4 quadrant) (T_j=25°C , unless otherwise specified)

Symbol	Test Condition	Quadrant	Value				Unit
			I	II	III	IV	
I _{GT}	V _D =12V R _L =100Ω	I II III IV	MAX	35		70	mA
V _{GT}				1.5			
V _{GD}	T _j =125°C		MIN	0.2		V	
I _H	I _T =0.5A		MAX	60		mA	
I _L	I _G =1.2I _{GT}	MAX	60		mA		
			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		

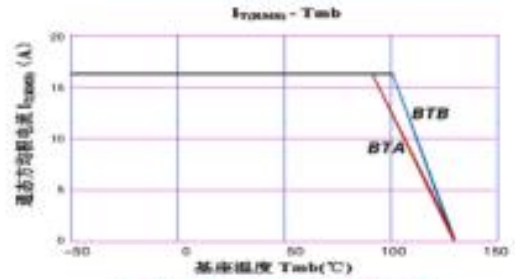
Static Characteristics

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

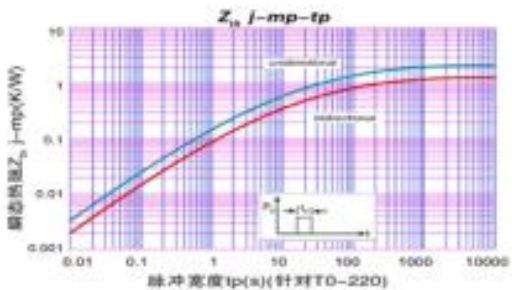
● **Typical Characteristics**



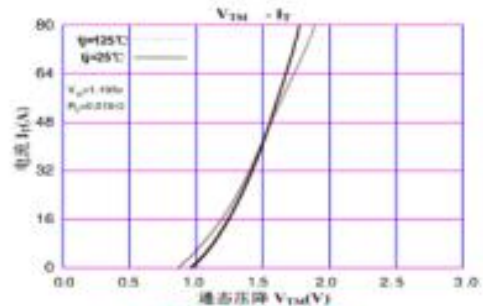
1、功耗与电流曲线 (180°C)



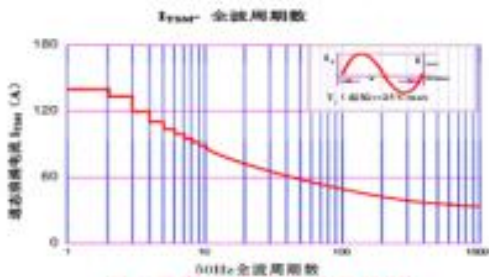
2、壳温与通态方均根电流曲线



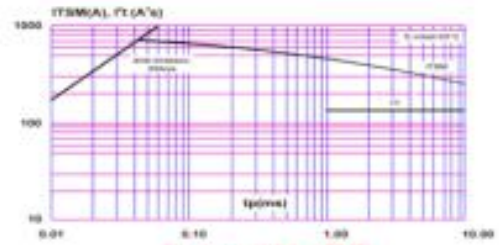
3、瞬态热阻曲线



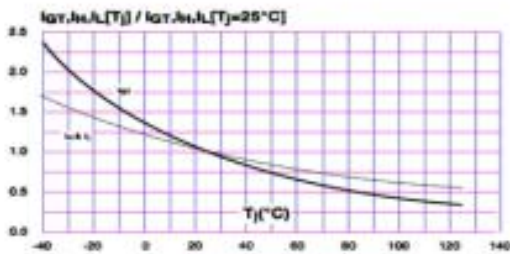
4、通态伏安特性曲线



5、浪涌电流与周波数曲线



6、 $I_{TSM}-t_p$ 曲线



7、门极触发特性曲线

- TO-220 Dimensions

