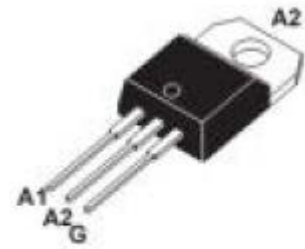


● Features:

- * 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-220
● Limiting Values

Symbol	Test Conditions	Value	Unit
$I_{T(RMS)}$	BTB08-600B $T_c=90^{\circ}C$	8	A
I_{TSM}	F=50HZ $t=20ms$	80	A
I^2t	$tp=10ms$	64	A ² S
di/dt	$T_j=125^{\circ}C$	50	A/us
V_{DRM}/V_{RRM}	$T_j=25^{\circ}C$	600	V
I_{GM}	$tp=20us$ $T_j=125^{\circ}C$	4	A
$P_{G(AV)}$	$T_j=125^{\circ}C$	1	W
T_{stg} T_j	$-40^{\circ}C - \dots +150^{\circ}C$ $-40^{\circ}C - \dots +125^{\circ}C$		$^{\circ}C$

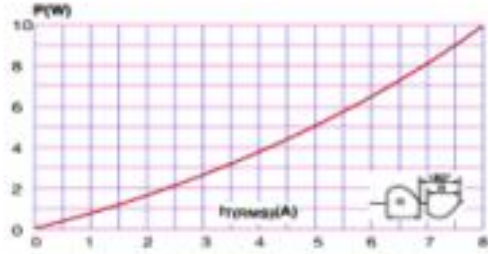
● Electrical Characteristics(Ta=25°C unless otherwise specified)

Symbol	Test Conditions	Quadrant		Value	Unit
I _{GT}	V _D =12V R _L =100Ω	I II III IV	MAX	≅ 50	mA
V _{GT}			MAX	1.5	V
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	I -IV	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	

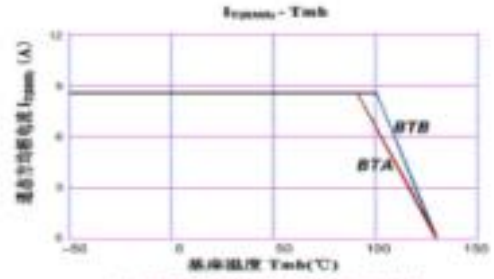
● Static Characteristics

Symbol	Test Conditions		Value	Unit
V _{TM}	I _{TM} = 32A T _j =25°C	MAX	1.50	V
V _{T0}	T _j =125°C	MAX	0.86	V
R _d	T _j =125°C	MAX	36.6	mΩ
I _{IDRM} I _{IRRM}	T _j =25°C	MAX	5	uA
	T _j =125°C		1	mA
R _{th(j-c)}	BTB		1.25	°C/W

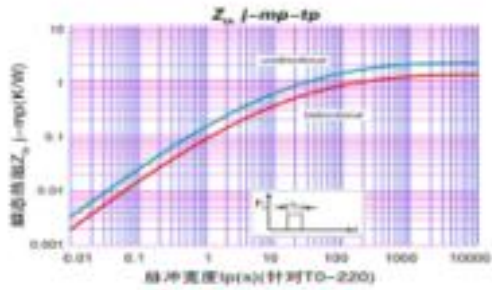
● Typical Characteristics



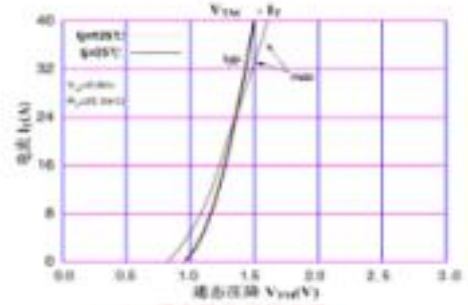
1、功耗与电流曲线 (180°C)



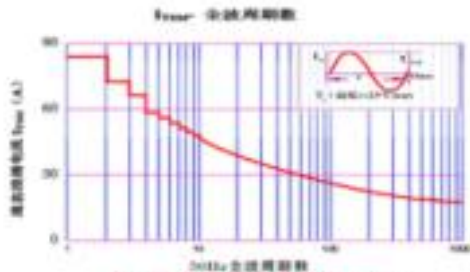
2、壳温与运态平均相电流曲线



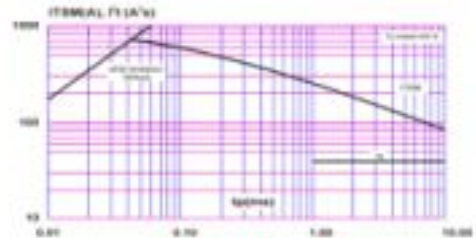
3、瞬态热阻曲线



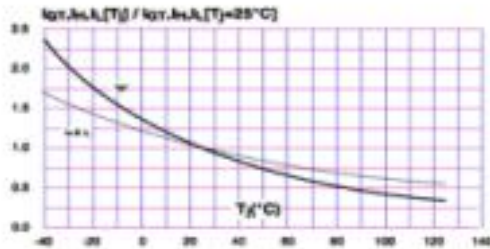
4、运态伏安特性曲线



5、浪涌电流与周波数曲线



6、 I_{TSM} - I_T - t 曲线



7、门极触发特性曲线

● TO-220 Dimensions

