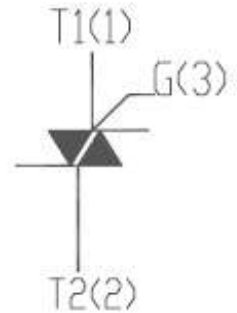


### ● Features and Applications:

- \* 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.



### ● Limiting Values

Symbol	Test Conditions	Value	Unit
$I_{T(RMS)}$	$T_c=80^{\circ}C$	6	A
$I_{TSM}$	$F=50HZ \quad t=20ms$	60	A
$I^2t$	$t_p=10ms$	18	$A^2S$
$di/dt$	$T_j=125^{\circ}C$	50	A/us
$V_{DRM}/V_{RRM}$	$T_j=25^{\circ}C$	600	V
$I_{GM}$	$t_p=20us \quad T_j=125^{\circ}C$	4	A
$P_{G(AV)}$	$T_j=125^{\circ}C$	1	W
$T_{stg}$ $T_j$	$-40^{\circ}C \text{ --- } +150^{\circ}C$ $-40^{\circ}C \text{ --- } +125^{\circ}C$		$^{\circ}C$

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

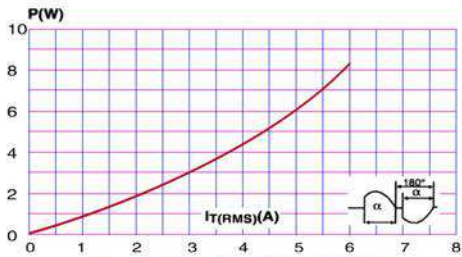
Symbol	Test Conditions	Quadrant		Value	Unit	
I <sub>GT</sub>	V <sub>D</sub> =12V R <sub>L</sub> =100Ω	I II III III	MAX	≅ 100	mA	
V <sub>GT</sub>			MAX	1.5	V	
V <sub>GD</sub>	T <sub>j</sub> =125°C		MIN	0.2	V	
I <sub>H</sub>	I <sub>T</sub> =0.5A		MAX	60	mA	
I <sub>L</sub>	I <sub>G</sub> =1.2I <sub>GT</sub>		MAX	I - III	60	mA
				II	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**

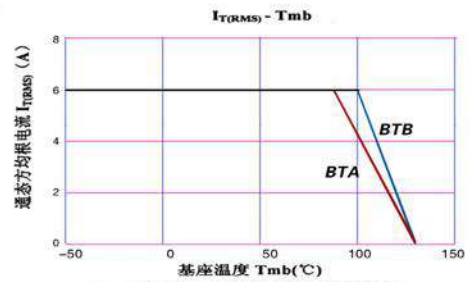
Symbol	Test Conditions		Value	Unit
V <sub>TM</sub>	I <sub>TM</sub> = 32A T <sub>j</sub> =25°C	MAX	1.45	V
V <sub>T0</sub>	T <sub>j</sub> =125°C	MAX	0.86	V
R <sub>d</sub>	T <sub>j</sub> =125°C	MAX	36.6	mΩ
I <sub>DRM</sub> I <sub>RPM</sub>	T <sub>j</sub> =25°C T <sub>j</sub> =125°C	MAX	5	uA
			1	mA
R <sub>th(j-c)</sub>	BTA		2.05	°C/W
	BTB		1.25	

● **Typical Characteristics**

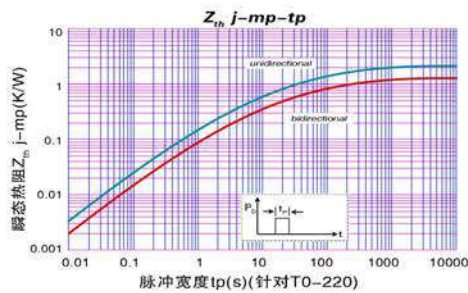
**BTA06,BTB06特性曲线(TO-220)**



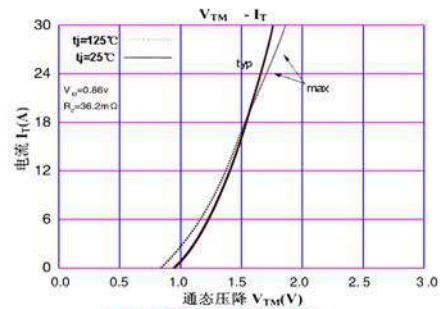
1、功耗与电流曲线 (180°C)



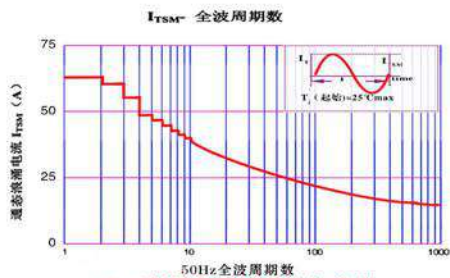
2、壳温与通态方均根电流曲线



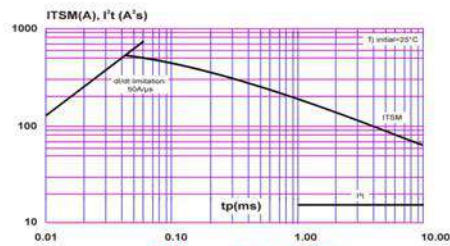
3、瞬态热阻曲线



4、通态伏安特性曲线



5、浪涌电流与周波数曲线



6、 $I_{TSM}-t, I^2t-t$  曲线



7、门极触发特性曲线

● TO-220 Outline Package Dimension

Unit: mm ( $\pm 0.1$ )

