LGE

RoHS COMPLIANT

## ● 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.

● Limiting Values

Symbol	Absolute maximum ratings Parameters		Value	Unit
$I_{T(RMS)}$	RMS on-state current	Tc=80℃	6	A
I_{TSM}	Non repetitive surge peak on-state current	F=50HZ t=20ms	60	A
I^2t	I2t value for fusing	tp=10ms	18	A^2S
di/dt	Critical rate of rise of on-state current	Tj=125℃	50	A/us
V_{DRM}/V_{RRM}	Non repetitive surge peak off-state voltage	Tj=25℃	600	V
I_{GM}	Peak gate current	tp=20us Tj=125℃	4	A
$P_{G(AV)}$	Average gate power dissipation	Tj=125℃	1	W
Tstg Tj	Storage junction temperature range Operating junction temperature range		−40~ +150 -4 0~ +125	℃

● Electrical Characteristics(Ta=25℃ unless otherwise specified)
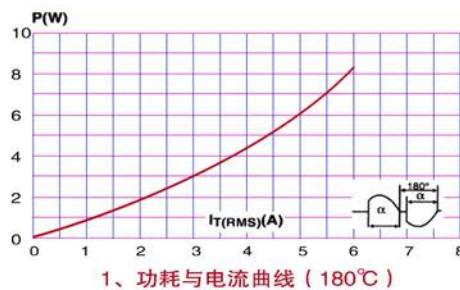
Symbol	Test Conditions	Quadrant		Value		Unit
I_{GT}	V_D=12V R_L=100Ω	Ⅰ Ⅱ Ⅲ Ⅳ	MAX	Ⅰ Ⅱ Ⅲ ≦25	Ⅳ ≦50	mA
V_{GT}			MAX	1.5		V
V_{GD}	Tj=125℃		MIN	0.2		V
I_H	I_T=0.5A		MAX	60		mA
I_L	I_G=1.2I_{GT}		MAX	Ⅰ-Ⅲ 60 Ⅱ 100		mA
dv/dt	V_D=2/3V_{DRM} Tj=125℃		MIN	500		V/us
(dv/dt)c	Tj=125℃		MIN	10		V/us

• Static Characteristics
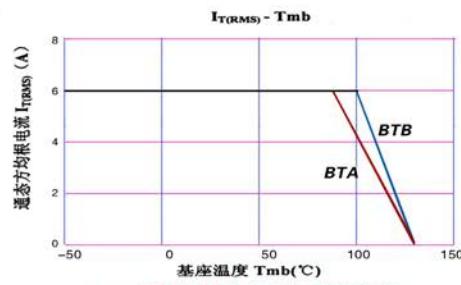
| Symbol	Test Conditions		Value	Unit
V_{TM}	I_{TM}= 32A Tj=25℃	MAX	1.45	V
V_{T0}	Tj=125℃	MAX	0.86	V
Rd	Tj=125℃	MAX	36.6	mΩ
I_{DRM} I_{RRM}	Tj=25℃ Tj=125℃	MAX	5	uA
			1	mA
$R_{th(j-c)}$	BTA		2.05	℃/W

● **Typical Characteristics**
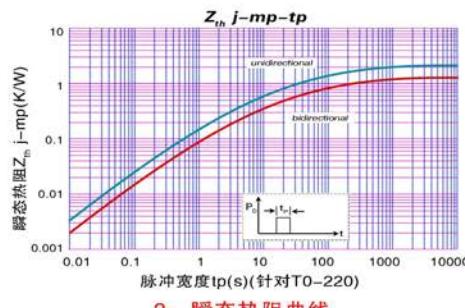
BTA06,BTB06特性曲线(TO-220)
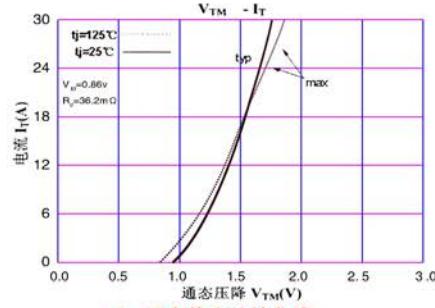
1、功耗与电流曲线（180℃）
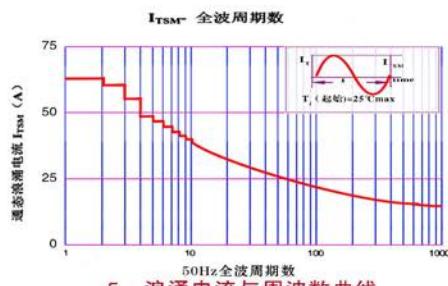
2、壳温与通态方均根电流曲线
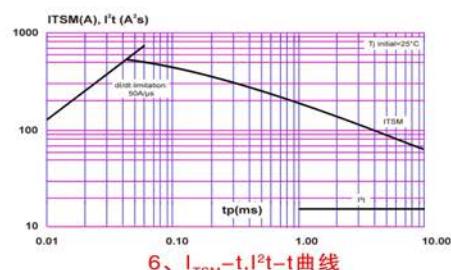
3、瞬态热阻曲线
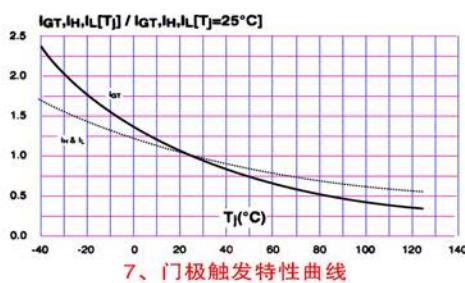
4、通态伏安特性曲线

5、浪涌电流与周波数曲线

6、I$_{TSM}$-t,I²t-t曲线

7、门极触发特性曲线

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● **TO-220 Outline Package Dimension**

Unit：mm （±0.1）