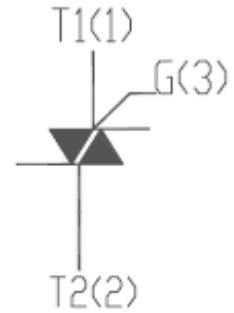
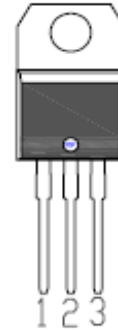


● Features:

- * 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

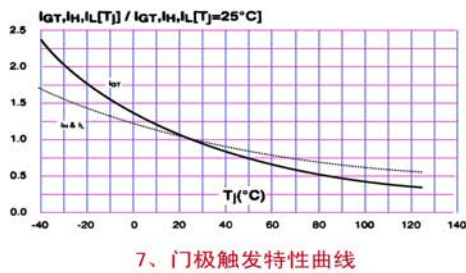
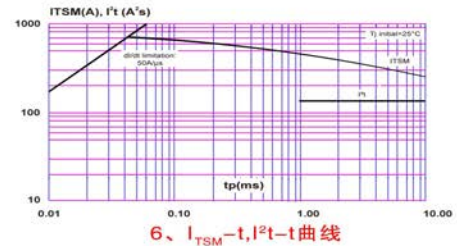
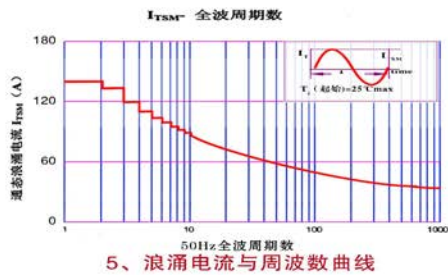
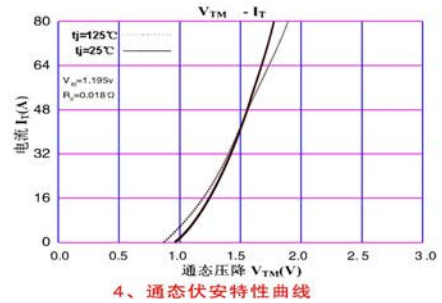
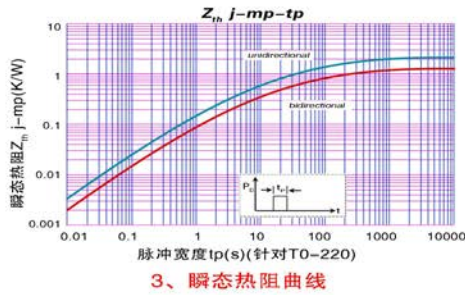
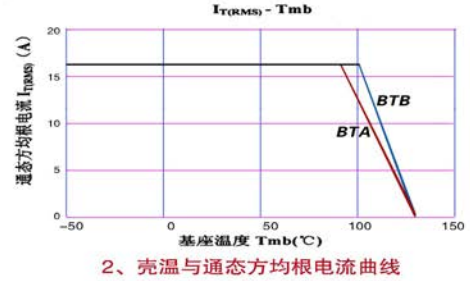
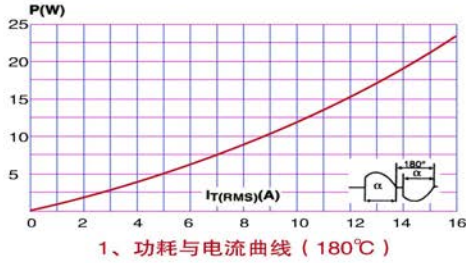
Symbol	Test Conditions		Value	Unit
$I_{T(RMS)}$	R.M.S. On-State Current	$T_c=80^{\circ}C$	16	A
I_{TSM}	Non-Repetitive Surge Peak On-State	$F=50HZ$ $t=20ms$	160	A
I^2t	Current(full cycle) I^2t Value for Fusing	$t_p=10ms$	144	A ² S
di/dt	Critical Rate of Rise of On-State Current	$T_j=125^{\circ}C$	50	A/us
V_{DRM}/V_{RRM}	Repetitive peak Off-State voltage Repetitive Peak	$T_j=25^{\circ}C$	800	V
I_{GM}	Reverse voltage Peak Gate Current	$t_p=20us$ $T_j=125^{\circ}C$	4	A
$P_{G(AV)}$	Average Gate Power Dissipation	$T_j=125^{\circ}C$	1	W
T_{stg} T_j	Storage temperature range Operating junction temperature	$-40^{\circ}C \sim +150^{\circ}C$ $-40^{\circ}C \sim +125^{\circ}C$		$^{\circ}C$

Electrical Characteristics(3 quadrant)(Ta=25°C unless otherwise specified)

Symbol	Test Conditions	Quadrant		Value	Unit
I_{GT}	$V_D=12V R_L=100\Omega$	I II III	MAX	≤ 35	mA
V_{GT}			MAX	1.5	V
V_{GD}	$T_j=125^\circ C$		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
dv/dt	$V_D=2/3V_{DRM} T_j=125^\circ C$		MIN	500	V/us
$(dv/dt)_c$	$T_j=125^\circ C$		MIN	10	V/us

Static Characteristics

Symbol	Test Conditions		Value	Unit
V_{TM}	$I_{TM}= 32A T_j=25^\circ C$	MAX	1.50	V
V_{T0}	$T_j=125^\circ C$	MAX	0.87	V
R_d	$T_j=125^\circ C$	MAX	14.6	mΩ
I_{DRM} I_{RRM}	$T_j=25^\circ C$	MAX	5	uA
	$T_j=125^\circ C$		1	mA
$R_{th(j-c)}$			2.1	°C/W

BTA16,BTB16特性曲线(T0-220)


● **TO-220 Outline Package Dimension**

Unit: mm (±0.1)

