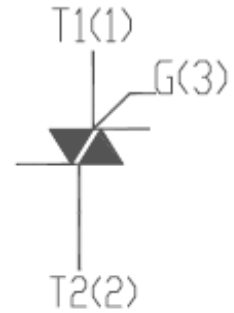
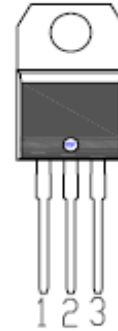


**● Features:**

- \* 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**

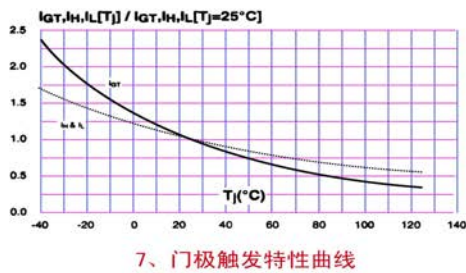
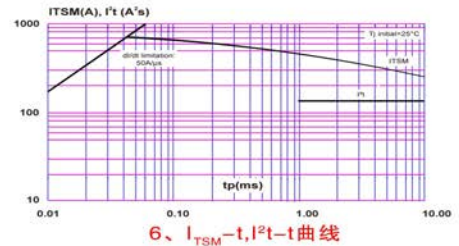
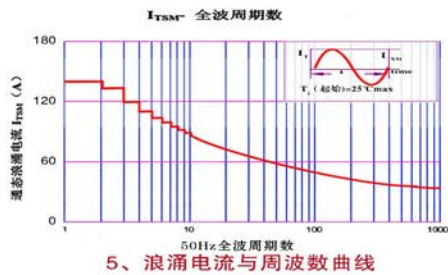
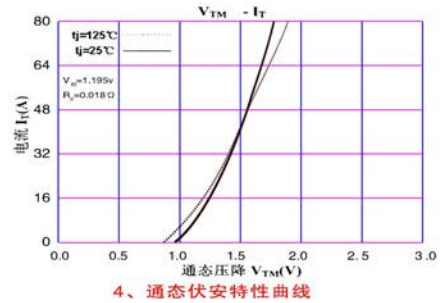
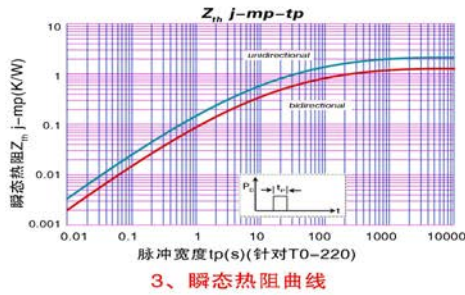
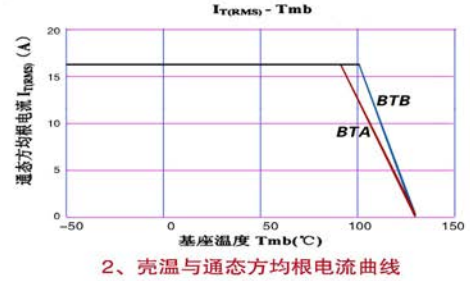
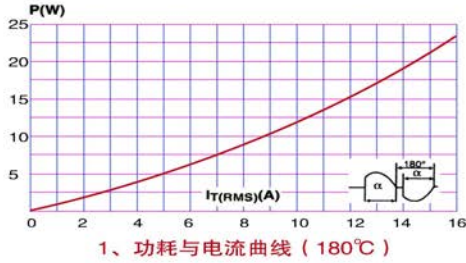
Symbol	Test Conditions		Value	Unit
$I_{T(RMS)}$	R.M.S. On-State Current	$T_c=80^{\circ}C$	16	A
$I_{TSM}$	Non-Repetitive Surge Peak On-State	$F=50HZ$ $t=20ms$	160	A
$I^2t$	Current(full cycle) $I^2t$ Value for Fusing	$t_p=10ms$	144	A <sup>2</sup> S
di/dt	Critical Rate of Rise of On-State Current	$T_j=125^{\circ}C$	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	$\leq 50$	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	mA
				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	m $\Omega$
$I_{DRM}$ $I_{RRM}$	$T_j=25^\circ C$	MAX	5	$\mu A$
	$T_j=125^\circ C$		1	mA
$R_{th(j-c)}$			2.1	$^\circ C/W$

**BTA16,BTB16特性曲线(T0-220)**


● **TO-220 Outline Package Dimension**

**Unit: mm (±0.1)**

