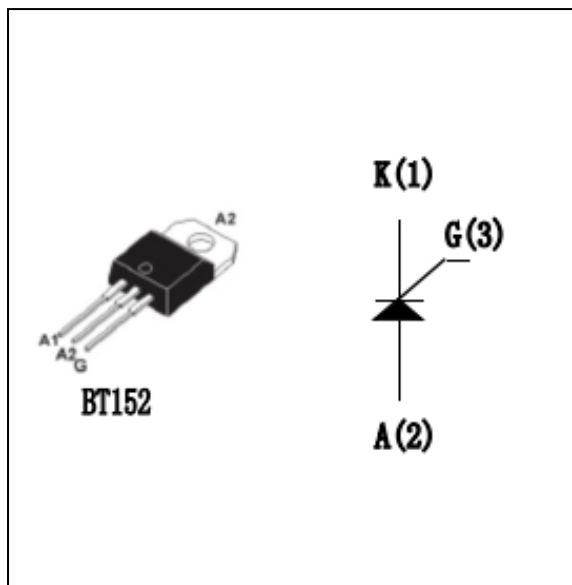


Features:

- * Back multilayer metal electrode
- * High temperature reliability
- * Glass Passivated junction chips
- * NPNPN Bi-direction Triac

Application:

Power tool ,moto speed controller,
 Vacuum cleaner,heating temperature controller,
 Solid state relay and phase control circuits.



● ABSOLUTE MAXIMUM RATINGS

Symbol	Absolute maximum ratings parameters		Value	Unit
$I_{T(RMS)}$	RMS on-state current	$T_c=90^{\circ}C$	12	A
I_{TSM}	Non repetitive surge peak on-state current	$F=50HZ$ $t=20ms$	120	A
I^2t	I^2t value for fusing	$t_p=10ms$	144	A^2S
di/dt	Critical rate of rise of on-state current	$T_j=125^{\circ}C$	50	A/us
V_{DRM}/V_{RRM}	Non repetitive surge peak off-state voltage	$T_j=25^{\circ}C$	600	V
I_{GM}	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 junction temperature range Operating junction temperature range		-40~+150 -40~+125	$^{\circ}C$

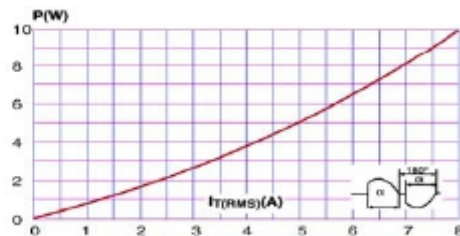
• **Electrical Characteristics (T_j=25°C, unless otherwise specified)**

Symbol	Test Condition	Quadrant		Value	Unit
I _{GT}	V _D =12V R _L =100Ω	I	MAX	15	mA
V _{GT}			MAX	1.5	V
V _{GD}	T _j =125℃		MIN	0.2	V
I _H	I _T =0.5A		MAX	30	mA
I _L	I _G =1.2I _{GT}	I	MAX	40	mA
				60	
dv/dt	V _D =2/3V _{DRM} T _j =125℃		MIN	500	V/us

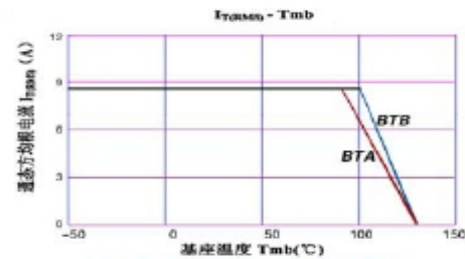
• **Static Characteristics**

Symbol	Test Condition			Value	Unit
V _{TM}	I _{TM} = 36A T _j =25°C	T _j =25°C	MAX	1.5	V
V _{T0}	T _j =125°C	T _j =125°C	MAX	0.86	V
R _d	T _j =125°C	T _j =125°C	MAX	36.6	mΩ
I _{DRM} I _{RRM}	T _j =25°C T _j =125°C	T _j =25°C T _j =125°C	MAX	5	uA
				1	mA
R _{th(j-c)}				1.75	°C/W

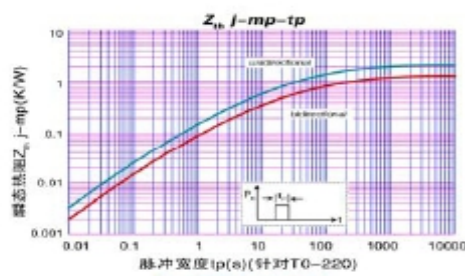
Typical Characteristics



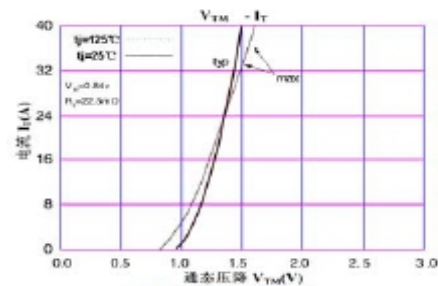
1、功耗与电流曲线 (180°C)



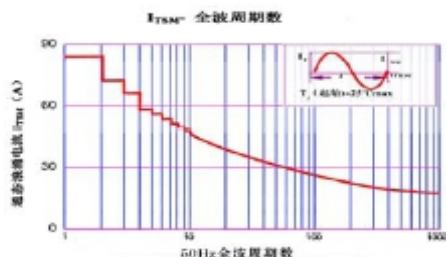
2、壳温与通态方均根电流曲线



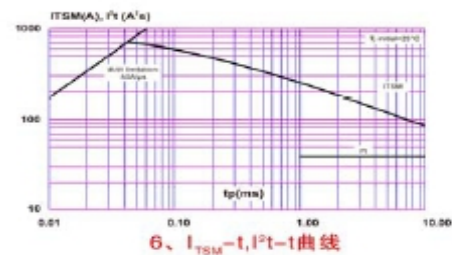
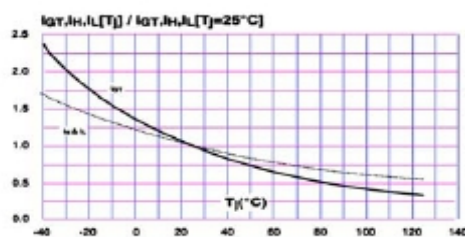
3、瞬态热阻曲线



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 (± 0.1)

