



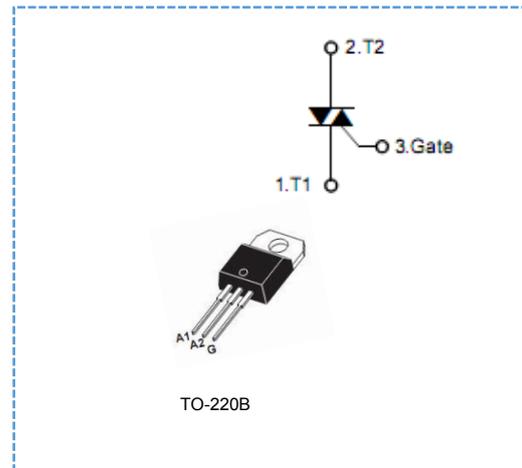
◆ 用途

主要用于调光、调温等调压电路，微波炉、洗衣机、电风扇、饮水机、夜明灯等家电的控制电路及用于交流相控、斩波器、逆变器、变频器和固态继电器等电路中

◆ 特征

采用先进的玻璃钝化工艺，较低的通态压降，高的可靠性、稳定性

◆ 极限值



名称	符号	规范值	单位	测试条件
重复峰值阻断电压	V_{DRM}	600	V	$I_{DRM}=10\mu A$
反向重复峰值电压	V_{RRM}	600	V	$I_{RRM}=10\mu A$
通态电流	$I_{T(RMS)}$	16	A	正弦波 180°
浪涌电流	I_{TSM}	160	A	正弦波 60Hz, $t_p=20ms$
结温	T_j	125	°C	
贮存温度	T_{stg}	-40-150	°C	

◆ 电特性

名称		符号	测试条件	Min	Max	Type	单位
正反向漏电流		I_{DRM}/I_{RRM}	$V_D=V_{DRM}=V_{RRM}$	--	10		μA
通态电压		V_{TM}	$I_T=20A$	--	1.6		V
维持电流		I_H	$I_T=500mA$	--	50		mA
门极触发电流	I	I_{GT}	T2(+),G(+)	$V_D=12V,$ $R_L=100\Omega$	--	50	mA
	II		T2(+),G(-)		--	50	mA
	III		T2(-),G(-)		--	50	mA
门极触发电压	I	V_{GT}	T2(+),G(+)	$V_D=12V,$ $R_L=100\Omega$	--	2	0.8 V
	II		T2(+),G(-)		--	2	0.8 V
	III		T2(-),G(-)		--	2	0.8 V
门极不触发电压		V_{GD}	$V_D=1/2 V_{DRM}$	0.2	--		V
断态电压临界上升率		dV/dt	$V_{DM}=67\%V_{DRM}$ Gate open $T_j=110^\circ C$	50	--		V/ μs
换向电压临界上升率		$(dV/dt)_c$	$V_{DM}=400V$ $T_j=110^\circ C$ $(dI/dt)_c=2.2A/ms$ Gate open	10	--		V/ μs

◆ 产品包装

封装形式	数量	包装材质
TO-220	管装: 50/条、1000/盒、5000/箱	盒/箱
	袋装: 250/袋、2.5K/盒、10K/箱	
发货方式	快 递	

◆ 产品保管条件

温度	10-30°C
湿度	<60%
放置期限	一年
保管状态	仓储

◆ 特性数据

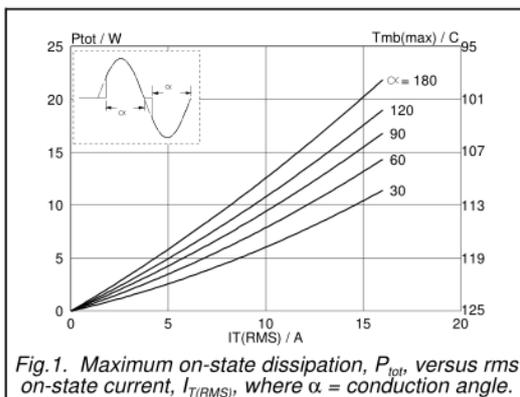


Fig. 1. Maximum on-state dissipation, P_{tot} , versus rms on-state current, $I_{T(RMS)}$, where α = conduction angle.

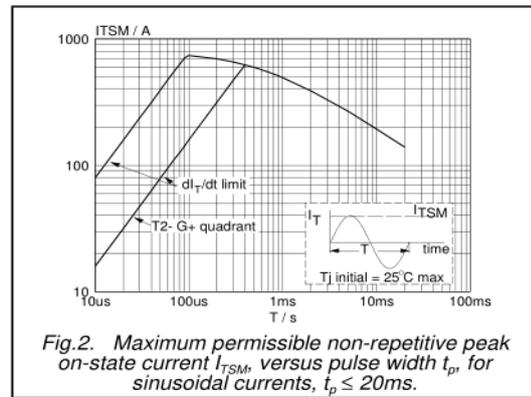


Fig. 2. Maximum permissible non-repetitive peak on-state current I_{TSM} , versus pulse width t_p , for sinusoidal currents, $t_p \leq 20$ ms.

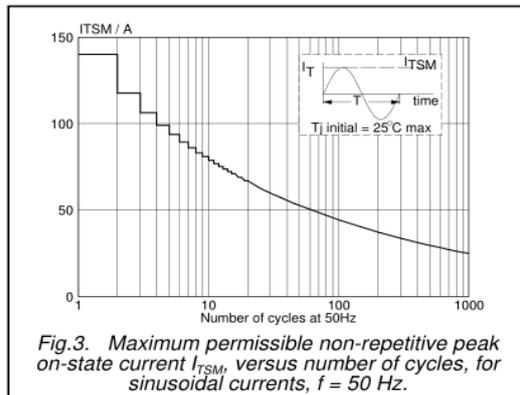


Fig. 3. Maximum permissible non-repetitive peak on-state current I_{TSM} , versus number of cycles, for sinusoidal currents, $f = 50$ Hz.

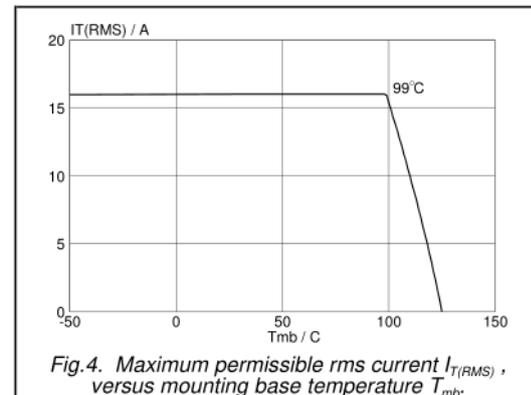


Fig. 4. Maximum permissible rms current $I_{T(RMS)}$, versus mounting base temperature T_{mb} .

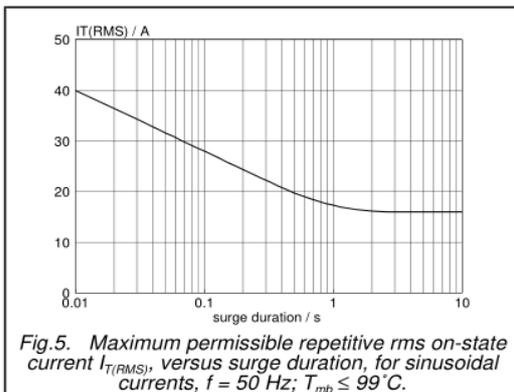


Fig. 5. Maximum permissible repetitive rms on-state current $I_{T(RMS)}$, versus surge duration, for sinusoidal currents, $f = 50$ Hz; $T_{mb} \leq 99$ °C.

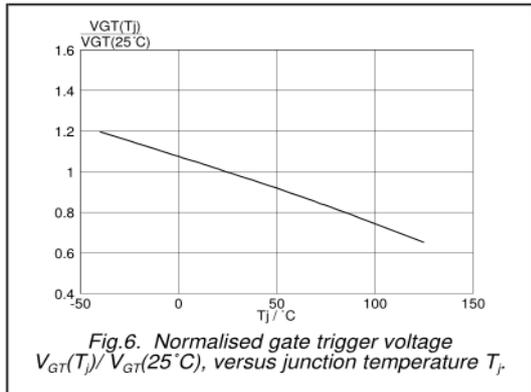
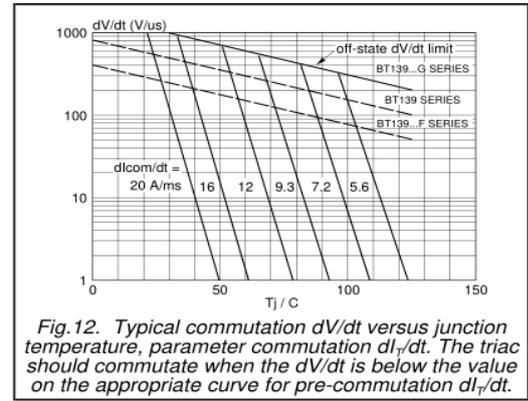
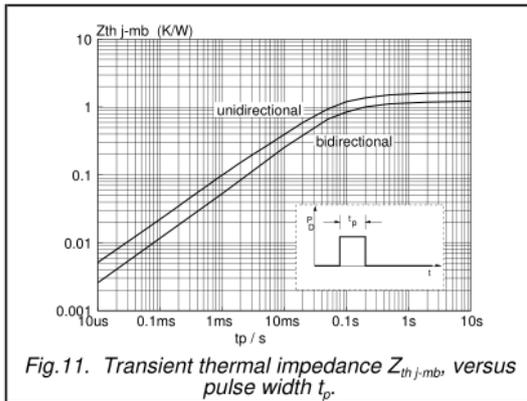
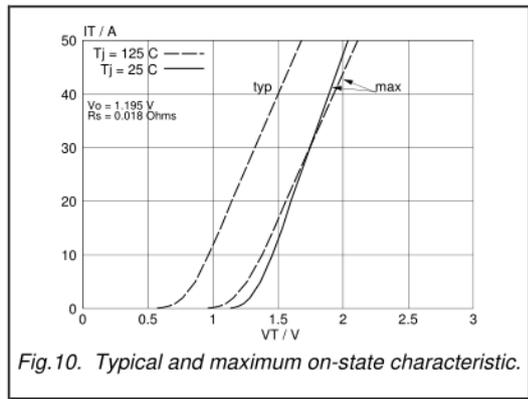
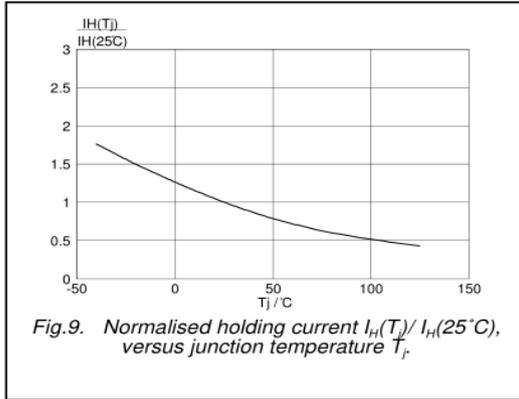
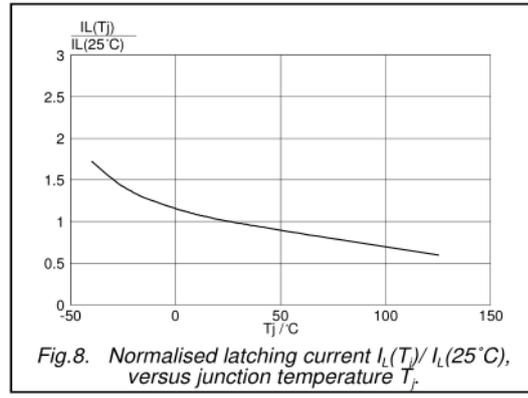
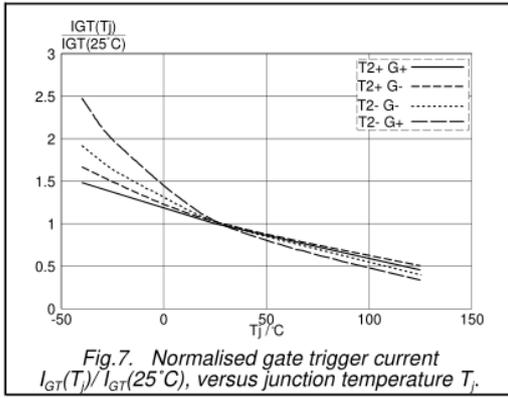
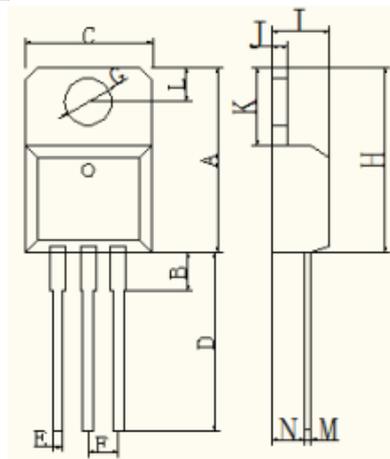


Fig. 6. Normalised gate trigger voltage $V_{GT}(T_j) / V_{GT}(25^\circ\text{C})$, versus junction temperature T_j .



◆ 产品尺寸



REF.	DIMENSIONS		REF.	DIMENSIONS	
	Millimeters			Millimeters	
	Type			Type	
A	15.25 ± 0.3		H	15.25 ± 0.3	
B	3.5 ± 0.5		I	4.47 ± 0.2	
C	10.1 ± 0.2		J	1.28 ± 0.1	
D	13.3 ± 0.5		K	6.45 ± 0.3	
E	0.81 ± 0.2		L	2.85 ± 0.3	
F	2.54 ± 0.1		M	0.5 ± 0.1	
G	3.78 ± 0.2		N	2.65 ± 0.3	