



绍兴怡华电子科技有限公司

■ 主要特点:

玻璃钝化工艺;
单向触发导通;
通态压降低;
双向阻断电压高;
环保塑料封装。



■ 用途:

用于各种开关控制器、马达控制器、光、温控制器、摩托车点火器等电路中。

■ 极限值:

参数名称	符号	规范值	单位	测试条件
重复峰值阻断电压	V_{DRM} 、 V_{RRM}	>600	V	
RMS 通态电流	I_T (RMS)	4	A	$T_I=60^{\circ}\text{C}$
平均通态电流	I_T (AV)	2.5	A	$T_I=60^{\circ}\text{C}$
浪涌电流	I_{TSM}	30	A	$t_p=10\text{ms}$, $T_j=25^{\circ}\text{C}$
通态电流上升率	dI/dt	50	A/ μS	$F=60\text{HZ}$
门极峰值电流	I_{GM}	1.2	A	$t_p=20\mu\text{S}$
平均门极耗散功率	P_G (AV)	0.2	W	
贮存温度	T_{stg}	-40~+150	$^{\circ}\text{C}$	
结温	T_j	-40~+125	$^{\circ}\text{C}$	

Tstg	贮存结温范围	-40-+150	°C
Tj	工作结温范围	-40-+125	°C

■ 电特性

参数名称	符号	规范值	单位	测试条件
触发电流	I_{GT}	10-200	μA	$V_D=12V, R_L=140\Omega$
触发电压	V_{GT}	≤ 0.8	V	$V_D=12V, R_L=140\Omega$
维持电流	I_H	≤ 5	mA	$I_T=50mA, R_{GK}=1K\Omega$
电压上升率	dv/dt	≥ 15	V/ μS	$V_D=67\%V_{DRM}, R_{GK}=1K\Omega$
通态压降	V_{TM}	≤ 1.7	V	$I_{TM}=8A, t_p=380\mu S$
断态漏电流	I_{DRM}, I_{RRM}	≤ 5	μA	$V_D=V_{DRM}, V_R=V_{RRM}, R_{GK}=1K\Omega, T_j=25^\circ C$
热阻	$R_{th}(j-l)$	15	°C/W	
	$R_{th}(j-a)$	100		

■ 热阻:

符号	参数	数值	单位
Rth(j-c)	Junction to case(AC) full cycle	60	°C/W
Rth(j-a)	Junction to ambient pcb mounted;lead length=4mm	150	°C/W

■ 特性曲线:

Fig. 1: Maximum average power dissipation versus average on-state current.

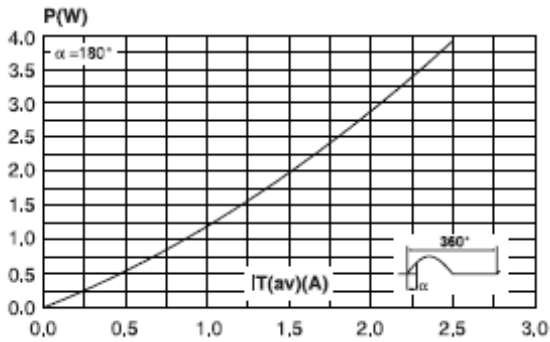


Fig.2: Relative variation of thermal impedance junction to ambient versus pulse duration

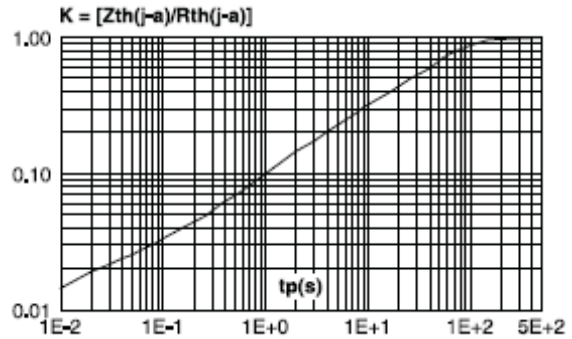
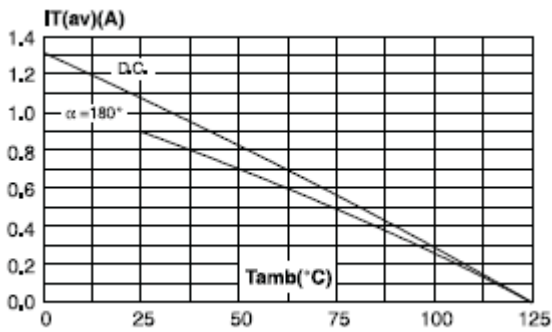


Fig.3. Average and D.C.on-state current versus ambient temperature



■ 特性曲线:

Fig. 4: Relative variation of gate trigger current, holding current and latching current versus junction temperature (typical values).

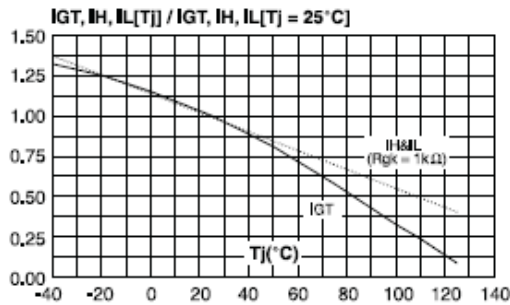


Fig. 6: Relative variation of dV/dt immunity versus gate-cathode resistance (typical values).

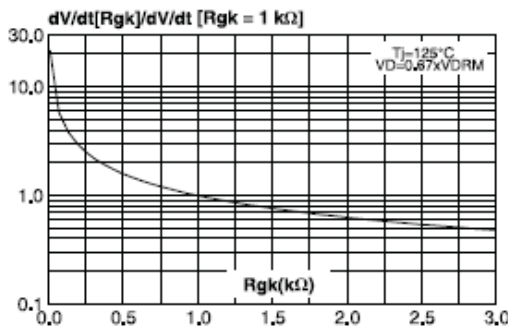


Fig. 8: Surge peak on-state current versus number of cycles.

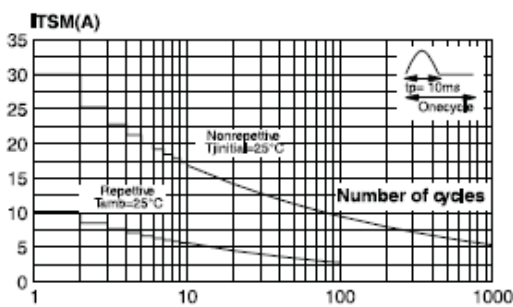


Fig. 5: Relative variation of holding current versus gate-cathode resistance (typical values).

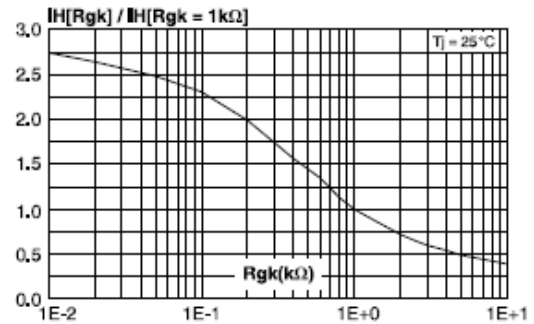


Fig. 7: Relative variation of dV/dt immunity versus gate-cathode capacitance (typical values).

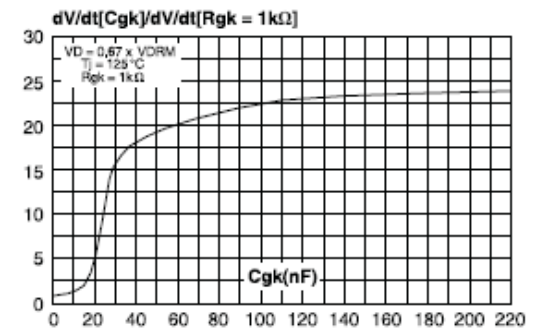
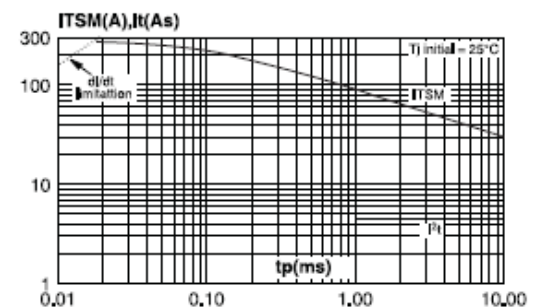


Fig. 9: Non-repetitive surge peak on-state current for a sinusoidal pulse with width tp < 10 ms, and corresponding value of I²t.



■ TO-126 外形尺寸

UNIT: mm

SYMBOL	min	nom	max	SYMBOL	min	nom	max
A	2.3		2.8	L	15.3		16.5
B	1.0		1.2	L1			2.54
B1	0.8		1.0	ϕP	3.0		3.2
b	0.65		0.88	$\phi P1$		5.0	
c	0.45		0.60	Q	3.6		4.4
D	10.5		11.1	Q1	0.9		1.5
E	7.2		7.8	R		0.5*	
e		2.29					

