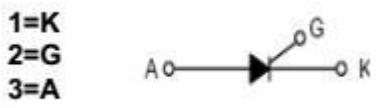
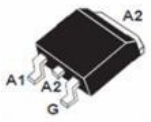
RX0405K

◆ 用 途

主要应用于各种脉冲点火器、负离子发生器、小型马达控制器、漏电保护器、灯具继电器激励器等线路功率控制。





TO-252

◆ 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}=20μA
反向重复峰值电压	V_{RRM}	600	V	I_{RRM}=20μA
通态电流	$I_{T(RMS)}$	4	A	正弦波,180 度
浪涌电流	I_{TSM}	30	A	正弦波 50Hz，t_p=10ms
结温	T_j	125	℃	
贮存温度	T_{stg}	-40~150	℃	

◆ 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}，R_{GK}=1KΩ	--	10		μA
通态电压	V_{TM}	I_T=8A	--	1.7		V
门极触发电流	I_{GT}	V_D=12V,　R_L=100Ω	--	120		μA
维持电流	I_H	I_T=50mA，R_{GK}=1KΩ	--	5		mA
门极触发电压	V_{GT}	V_D=12V,　R_L=100Ω		0.8		V
门极不触发电压	V_{GD}	V_D=1/2 V_{DRM}	0.1	--		V
断态电压临界上升率	dV/dt	V_{DM}=67%V_{DRM} R_{GK}=1KΩ　T_j=110℃	15	--		V/μs

◆ 特性数据

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

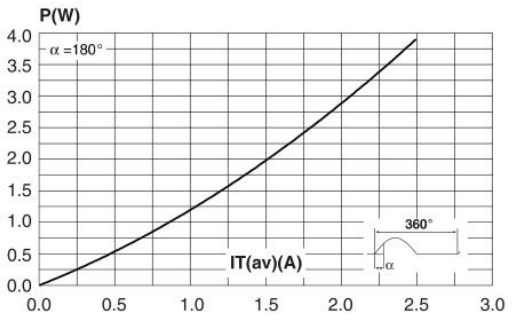


Fig. 2-1: Average and D.C. on-state current versus lead temperature.

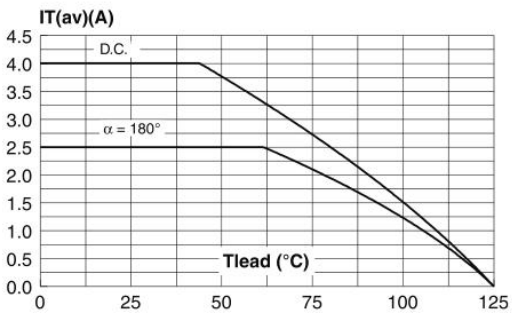


Fig. 2-2: Average and D.C. on-state current versus ambient temperature (device mounted on FR4 with recommended pad layout).

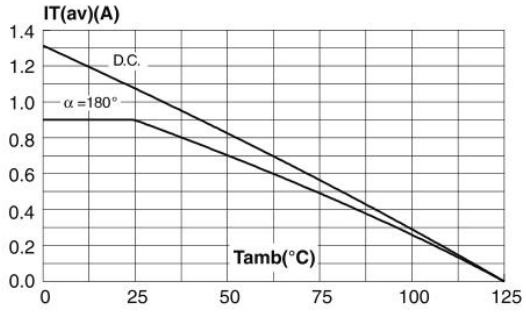


Fig. 3: Relative variation of thermal impedance junction to ambient versus pulse duration.

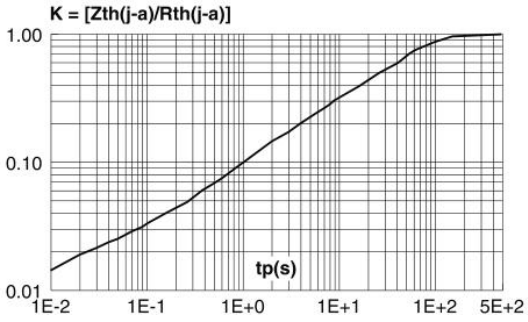


Fig. 4: Relative variation of gate trigger current, holding current and latching current versus junction temperature (typical values).

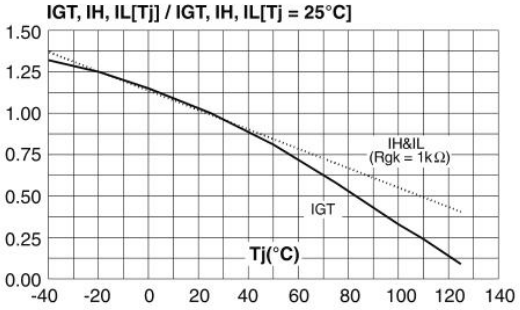


Fig. 5: Relative variation of holding current versus gate-cathode resistance (typical values).

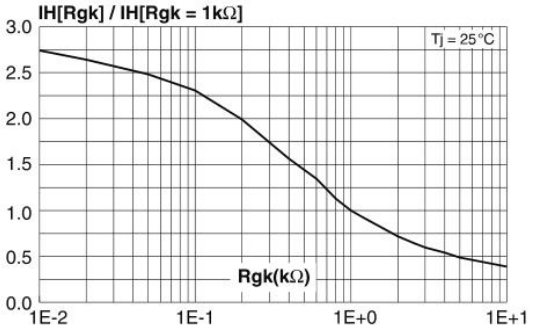


Fig. 6: Relative variation of dV/dt immunity versus gate-cathode resistance (typical values).

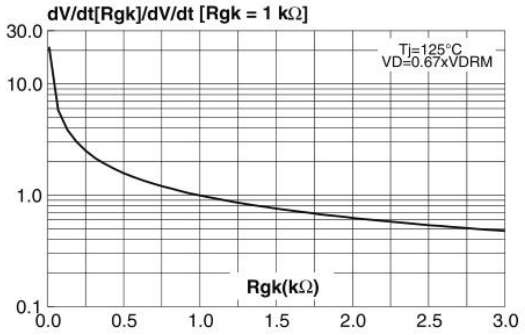


Fig. 7: Relative variation of dV/dt immunity versus gate-cathode capacitance (typical values).

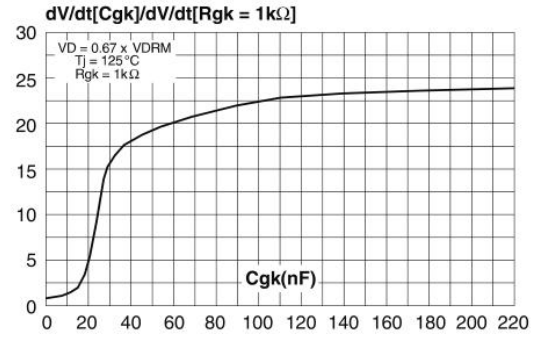


Fig. 8: Surge peak on-state current versus number of cycles.

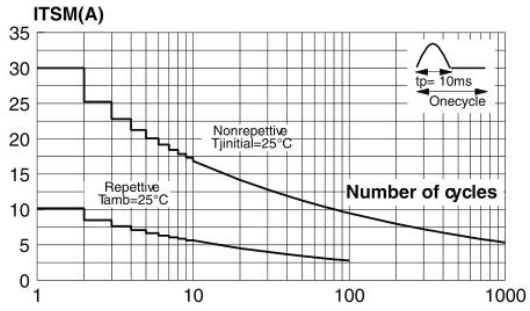


Fig. 9: Non-repetitive surge peak on-state current for a sinusoidal pulse with width tp < 10 ms, and corresponding value of I^2t.

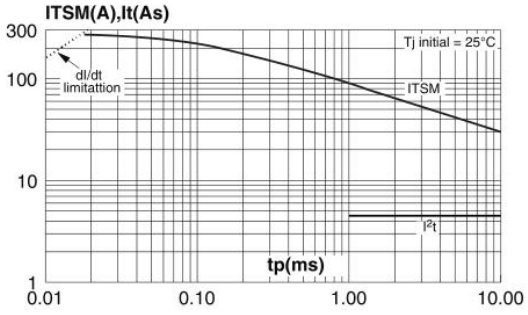
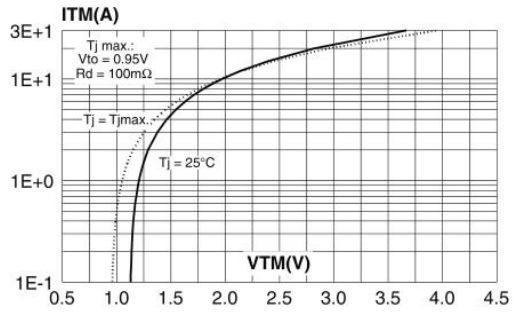


Fig. 10: On-state characteristics (maximum values).



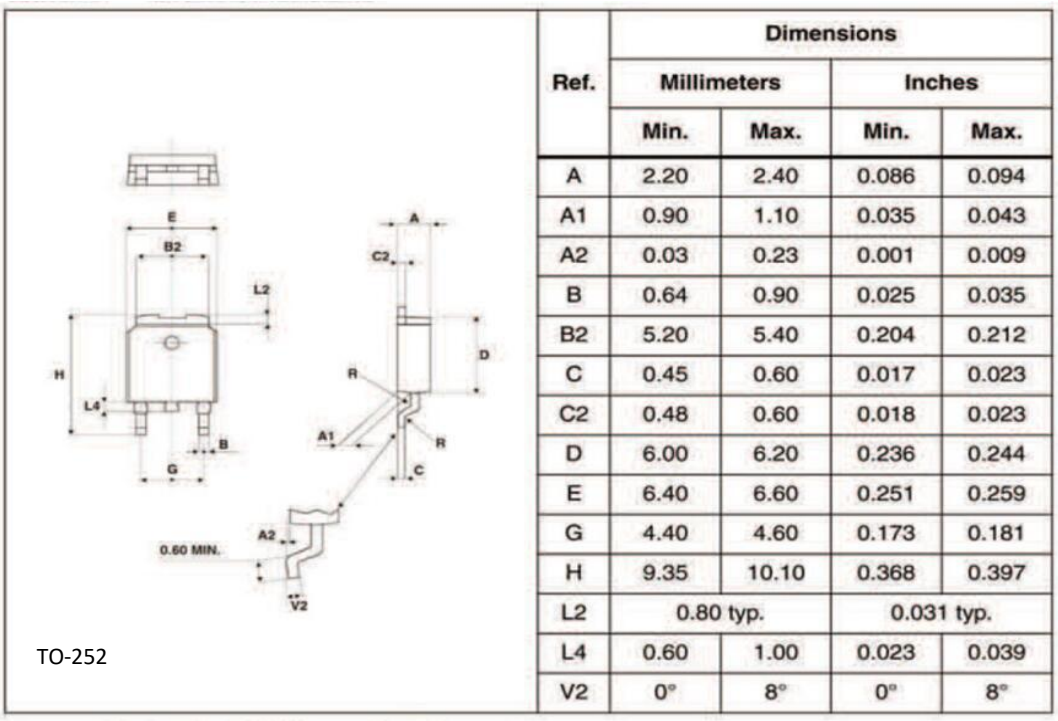
◆ 产品包装

封装形式	数 量	包装材质
TO-252	盘装：2.5K/盘、25K/箱	盘/箱
发货方式	快 递	

◆ 产品保管条件

温度	10-30℃
湿度	<60%
放置期限	一年
保管状态	仓储

◆ 产品尺寸



TO-252

Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	2.20	2.40	0.086	0.094
A1	0.90	1.10	0.035	0.043
A2	0.03	0.23	0.001	0.009
B	0.64	0.90	0.025	0.035
B2	5.20	5.40	0.204	0.212
C	0.45	0.60	0.017	0.023
C2	0.48	0.60	0.018	0.023
D	6.00	6.20	0.236	0.244
E	6.40	6.60	0.251	0.259
G	4.40	4.60	0.173	0.181
H	9.35	10.10	0.368	0.397
L2	0.80 typ.		0.031 typ.	
L4	0.60	1.00	0.023	0.039
V2	0°	8°	0°	8°