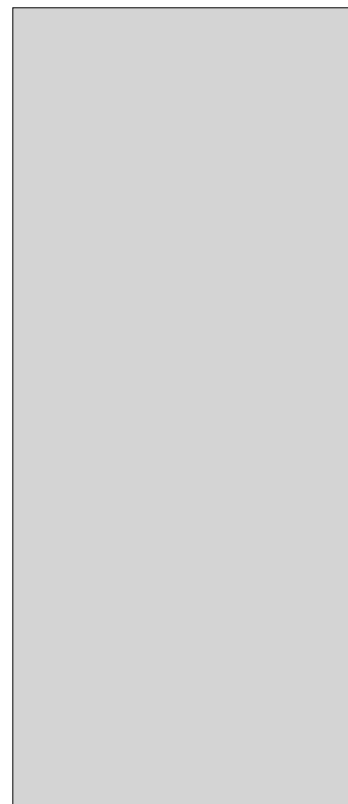




JCT612TF 12A SCR

Rev.A.1.1

JCT612TF silicon controlled rectifier is specifically designed for medium power switching and phase control applications. High current density due to mesa technology; SIPOS and Glass Passivation technology used has reliable operation up to 125 °C junction temperature. Low I_{GT} parts available. From all three terminals to external heatsink, JCT612TF provides a rated insulation voltage of 2000 V_{RMS} , complying with UL standards (File ref: E252906).
Package T





Peak gate current ($t_p=20\mu s$, $T_j=125$)	I_{GM}	4	A
Average gate power dissipation ($T_j=125$)	$P_{G(AV)}$	1	W
Peak gate power	P_{GM}	10	W
Peak pulse voltage ($T_j=25$; non-repetitive, off-state; FIG.7)	V_{pp}	0.5	kV

(T_j=25 unless otherwise specified)

Symbol	Test Condition	Value			Unit
		MIN.	TYP.	MAX.	
I_{GT}	$V_D=12V$ R_{jlppM}				A

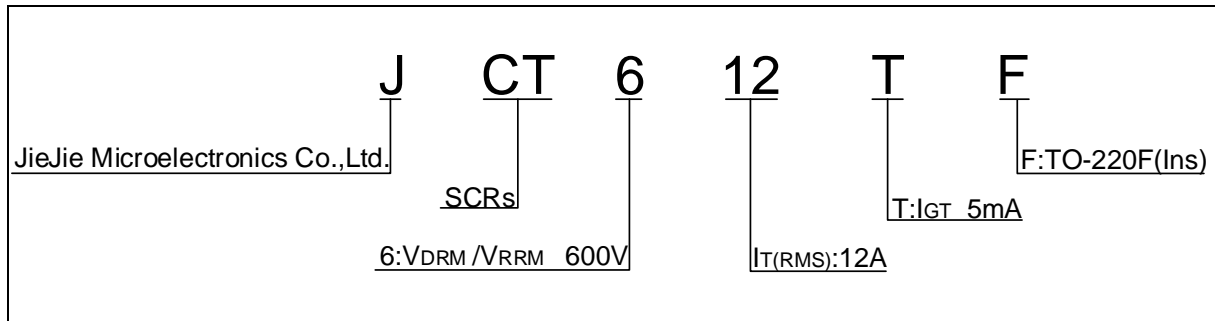


FIG.1: Maximum power dissipation versus RMS on-state current

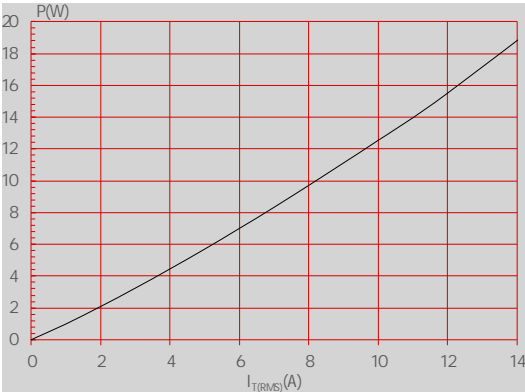
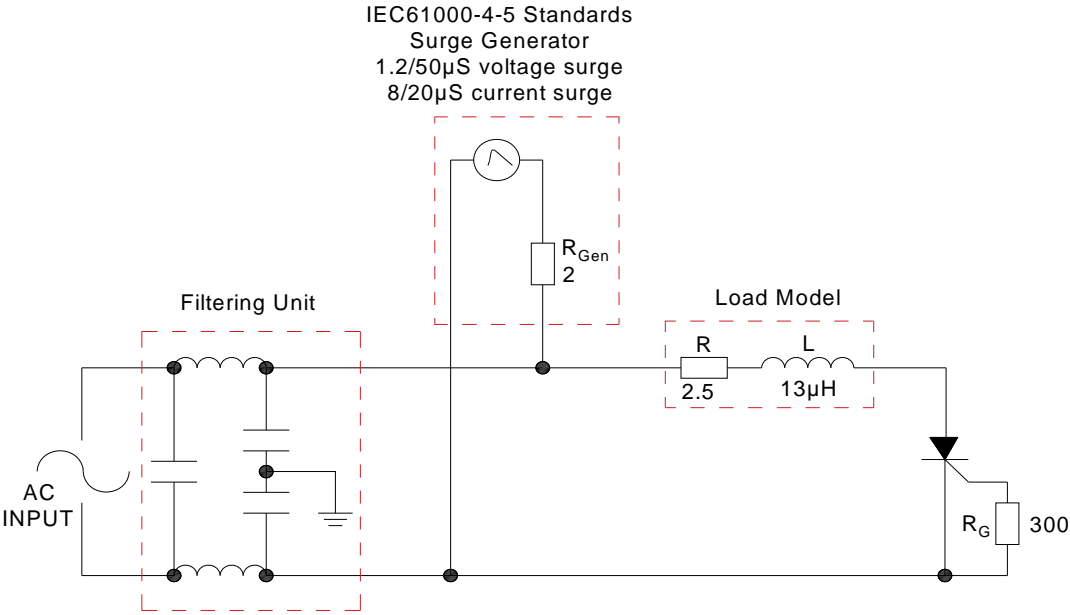


FIG.2: RMS on-state current versus case temperature




FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards.



Refer to the application note “Assembly Instructions for Thyristors in Through-hole Package” released by JieJie Microelectronics.



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