



## JCT812TA 12A SCR

Rev.A.1.1

JCT812TA 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, JCT812TA provides a rated insulation voltage of 2500  $V_{RMS}$ , complying with UL standards (File ref: E252906). Package TO-220A is RoHS compliant.



Parameter	Symbol	Value	Unit
Storage junction temperature range	$T_{stg}$	-40-150 (06)	s

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

( $T_j=25 \text{ }^\circ\text{C}$  unless otherwise specified)

Symbol	Test Condition	Value			Unit
		MIN.	TYP.	MAX.	
$I_{GT}$	$V_D$				V

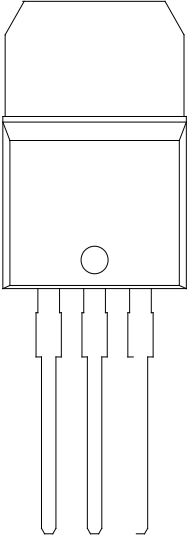
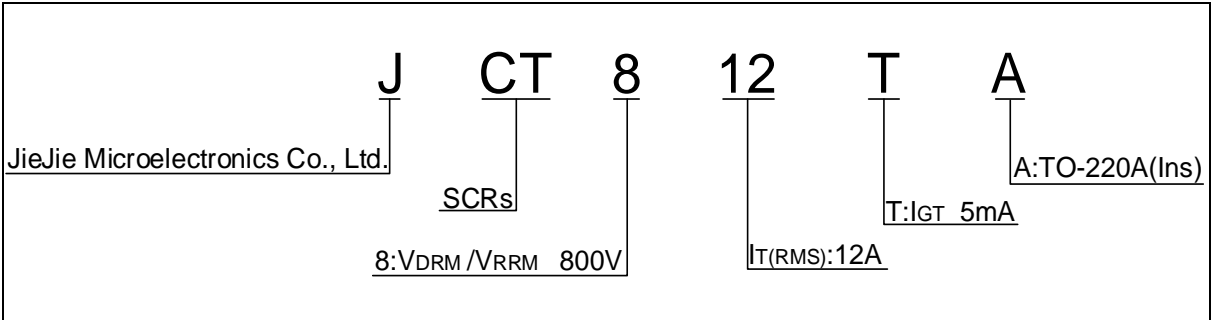
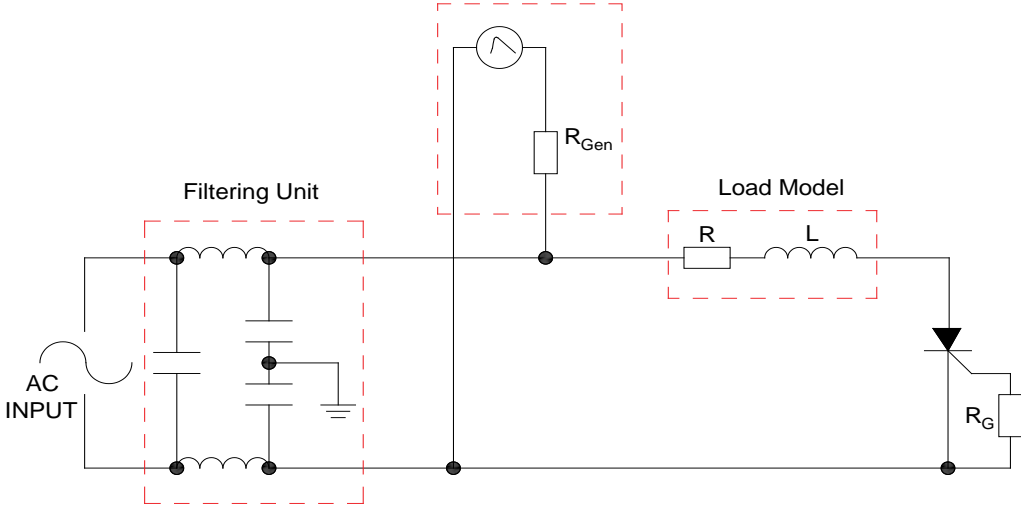


FIG.1:

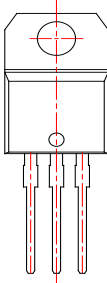
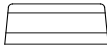
FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards.

IEC61000-4-5 Standards  
Surge Generator



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





Information furnished in this document is believed to be accurate and reliable.  
However, Jiangsu JieJie Microelectronics Co., Ltd.