



## JCT12110IS 110A SCR

Rev.A.1.1

### DESCRIPTION:

With high ability to withstand the shock loading of large current, JCT12110IS SCR provides high  $dV/dt$  rate with strong resistance to electromagnetic interference. It is especially recommended for use on solid state relay, UPS, SVC, power charger, T-tools etc. From all three terminals to external heatsink, JCT12110IS provides a rated insulation voltage of 2500  $V_{RMS}$ , Package ITO-247 is RoHS compliant.

### MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	110	A
$V_{DRM}/V_{RRM}$	1200	V
$I_{GT}$	10-80	mA

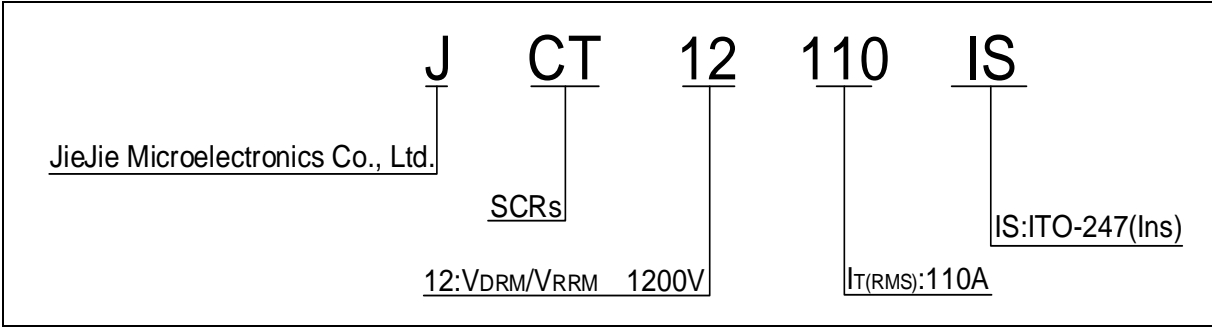
### ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage junction temperature range	$T_{stg}$	-40-150	
Operating junction temperature range	$T_j$	-40-125	
Repetitive peak off-state voltage ( $T_j=25^\circ C$ )	$V_{DRM}$	1200	V
Repetitive peak reverse voltage ( $T_j=25^\circ C$ )	$V_{RRM}$	1200	V
Average on-state current ( $T_C=73^\circ C$ )	$I_{T(AV)}$	70	A
RMS on-state current ( $T_C=73^\circ C$ )	$I_{T(RMS)}$	110	A
Non repetitive surge peak on-state current ( $t_p=10ms, T_j=25^\circ C$ )	$I_{TSM}$	11	

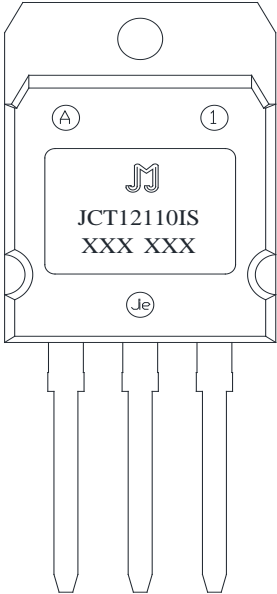
Peak gate current ( $t_p=20\mu s$ , $T_j=125$ )	$I_{GM}$	12	A
Average gate power dissipation ( $T_j=125$ )	$P_{G(AV)}$	1	W
Peak gate power	$P_{GM}$	22	W
Peak pulse voltage ( $T_j=25$ ; non-repetitive,off-state;FIG.7)	$V_{pp}$	1.3	kV

**ELECTRICAL CHARACTERISTICS (T**

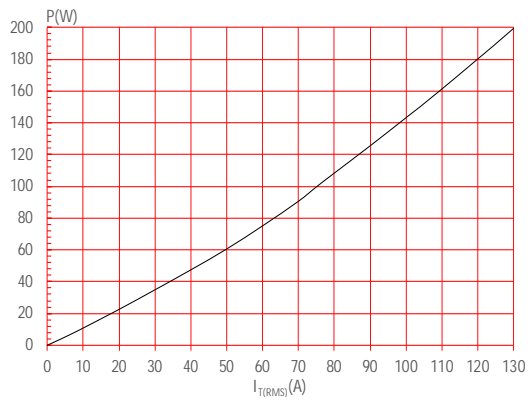
ORDERING INFORMATION



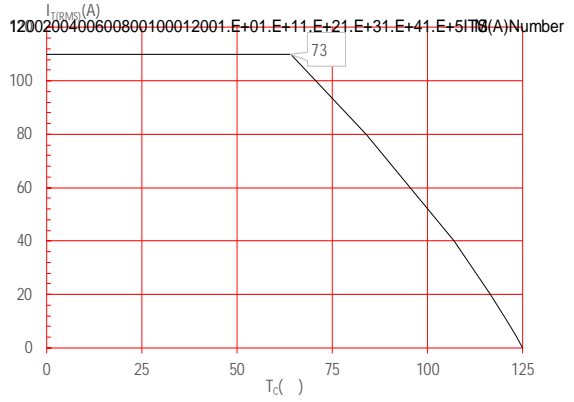
MARKING



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



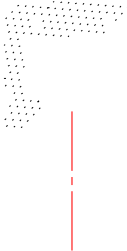
**FIG.2:** RMS on-state current versus case temperature






**JCT12110IS**

PACKAGE MECHANICAL DATA



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