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 insulationvoltage 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

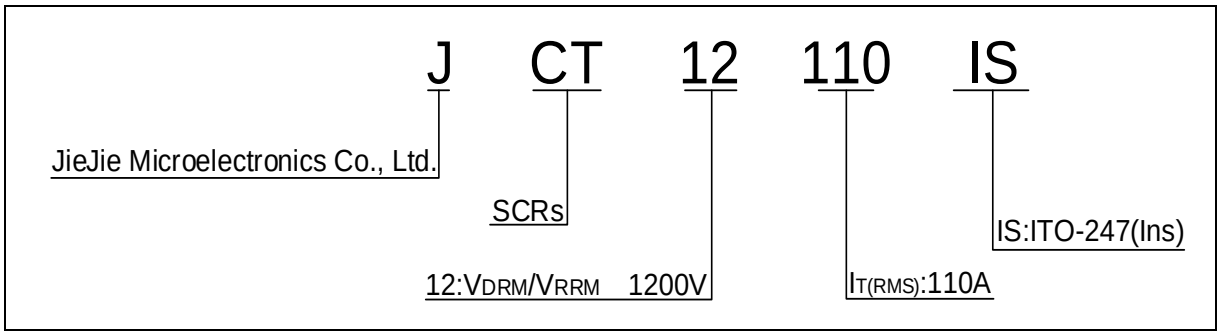
ABSOLUTE MAXIMUM RATINGS

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)	V_{DRM}	1200	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	1200	V
Average on-state current (T_C 73)	$I_{T(AV)}$	70	A
RMS on-state current (T_C 73)	$I_{T(RMS)}$	110	A
Non repetitive surge peak on-state current (t_p=10ms , T_j=25)	I_{TSM}	11	

Peak gate current (t_p=20μs , 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

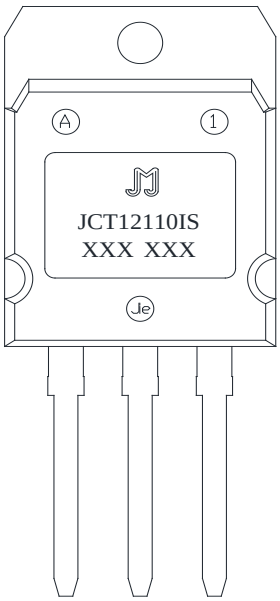


FIG.1: Maximum power dissipation versus RMS on-state current

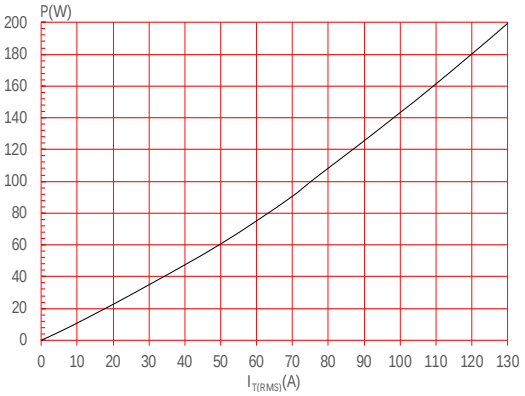


FIG.2: RMS on-state current versus case temperature

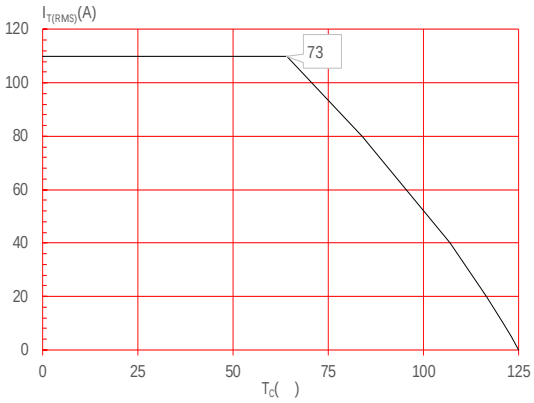


FIG.3: Surge peak on-state current versus number of cycles

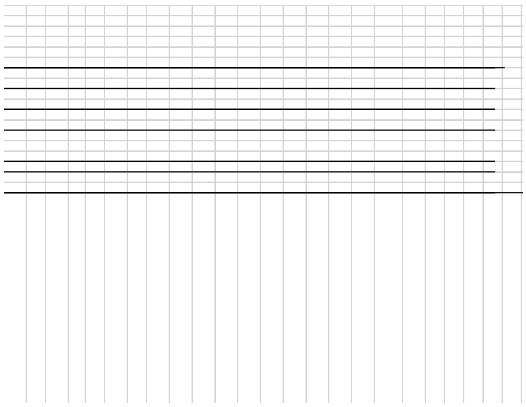
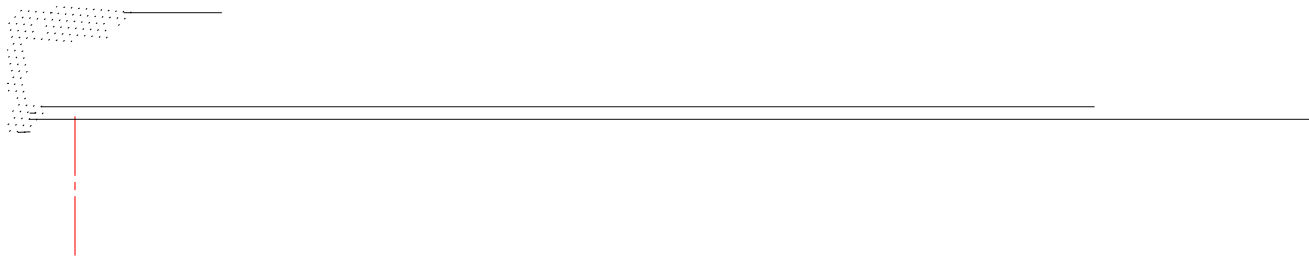


FIG.4: On-state characteristics

JCT12110IS

PACKAGE MECHANICAL DATA



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