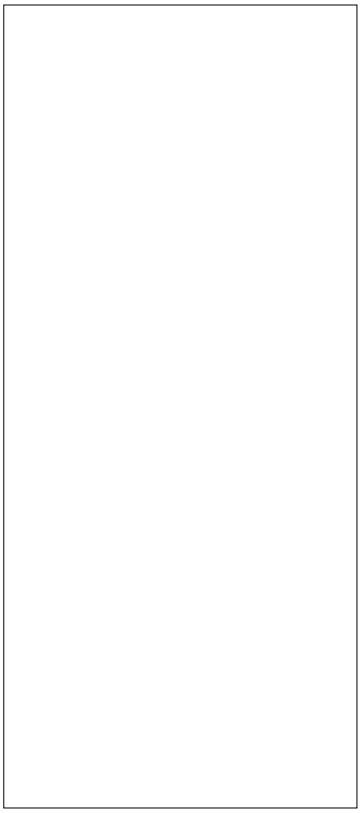
JCT612A 12A SCR

Rev.A.1.1

DESCRIPTION:

With high ability to withstand the shock loading of large current, JCT612A of silicon controlled rectifiers provides high dV/dt rate with strong resistance to electromagnetic interference. It is especially recommended for use on solid state relay, motorcycle, power charger, T-tools etc. From all three terminals to external heatsink, JCT612A provides a rated insulation voltage of 2500 $V_{RMS,}$ complying with UL standards (File ref: E252906). Package TO-220A is RoHS compliant.



MAIN FEATURES

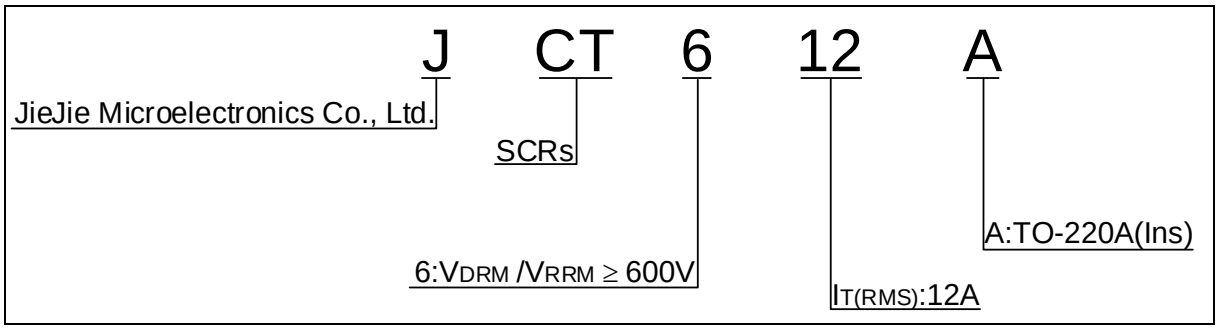
ABSOLUTE MAXIMUM RATINGS

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}	600	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	600	V
Average on-state current ($T_C \leq$ 89)	$I_{T(AV)}$	7.6	A
RMS on-state current ($T_C \leq$ 89)	$I_{T(RMS)}$	12	A
Non-repetitive surge peak on-state current (t_p=10ms, T_j=25)	I_{TSM}	120	A

Non-repetitive surge peak on-state current (tp=10ms, Tj=25) ITSM 120 A
Q q 71.16 161.4 254.64 31.-. <</MCID 48 >>BDC

JCT612A

ORDERING INFORMATION



MARKING

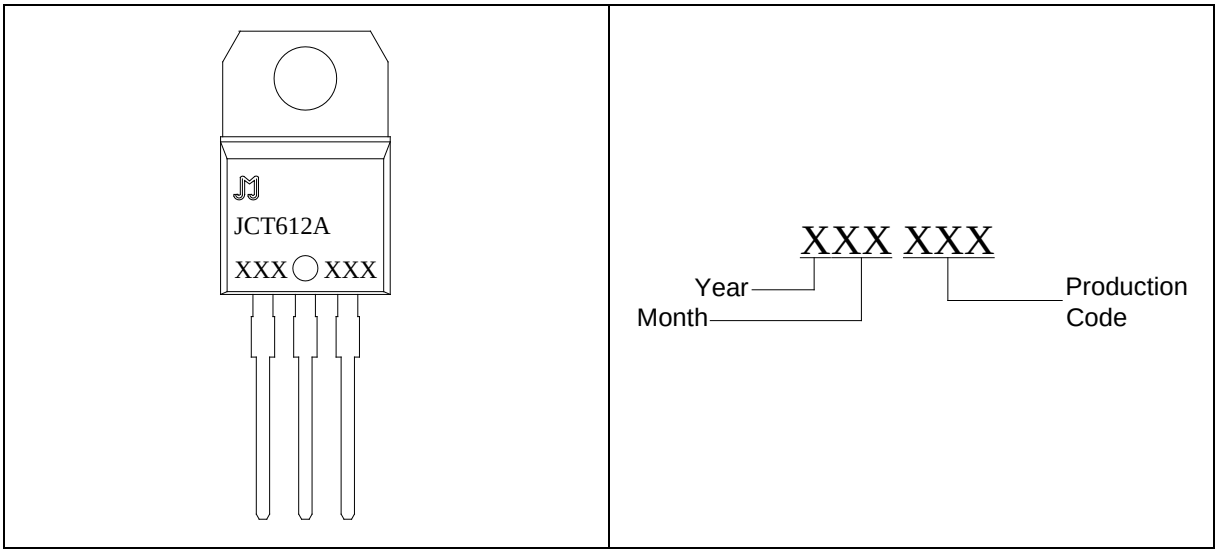


FIG.1: Maximum power dissipation versus RMS on-state current

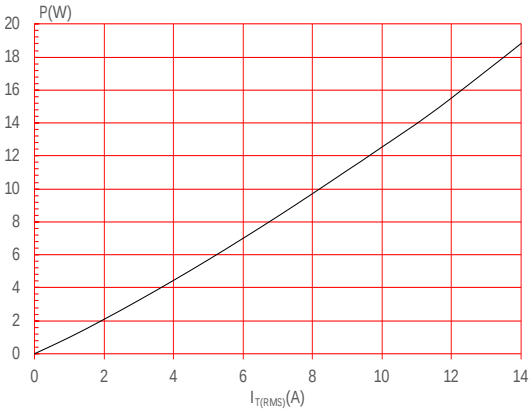
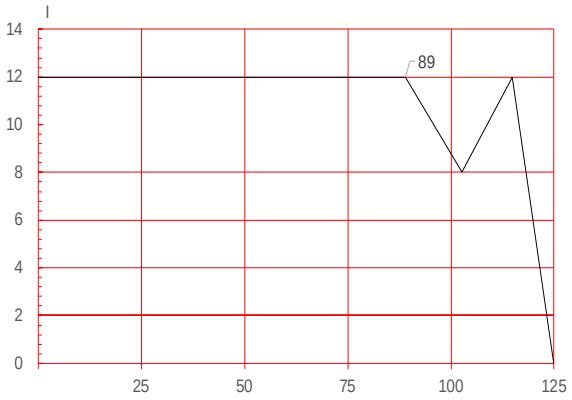
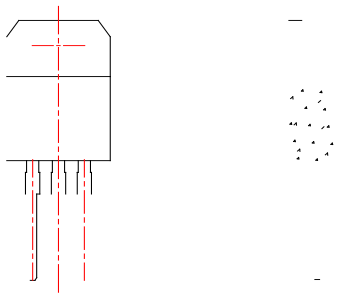


FIG.2: RMS on-state current versus case temperature



PACKAGE MECHANICAL DATA



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Products and infomplrvi in this dvme use no infr0 (i)0 (ng)1 (n)10 (m)-3 (en)10 (t)4 ( )10 0..810 (f)