

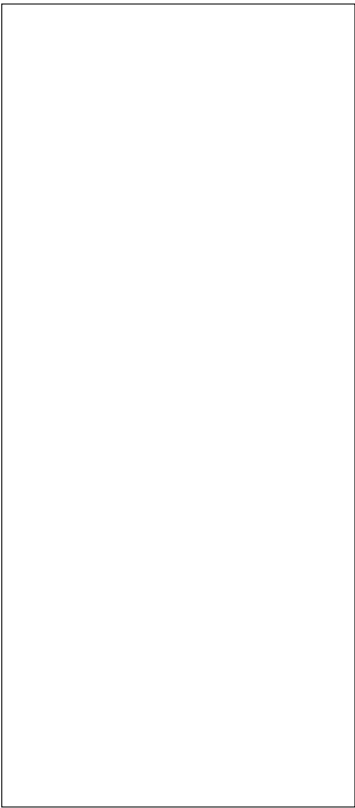


JCT612A 12A SCR

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 ≤ 89)	I _{T(AV)}	7.6	A
RMS on-state current (T _c ≤ 89)	I _{T(RMS)}	12	A

48.92pt(16.4mm)7.62pt(24.4mm)10.16pt(31.0mm)1.6mm 71.16 161.4 254.64 31.-. <</MCID 48 >>BDC

JCT612A

ORDERING INFORMATION

<u>J</u>	<u>CT</u>	<u>6</u>	<u>12</u>	<u>A</u>
JieJie Microelectronics Co., Ltd.	SCRs	$6: V_{DRM} / V_{RRM} \geq 600V$	$I_{T(RMS)}: 12A$	A: TO-220A(Ins)

MARKING

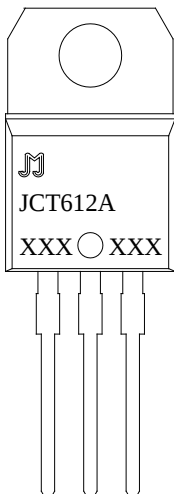
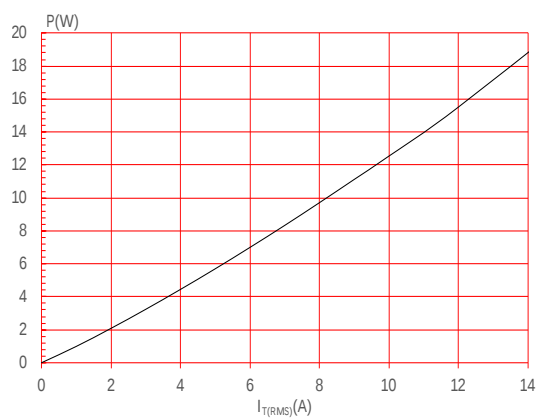
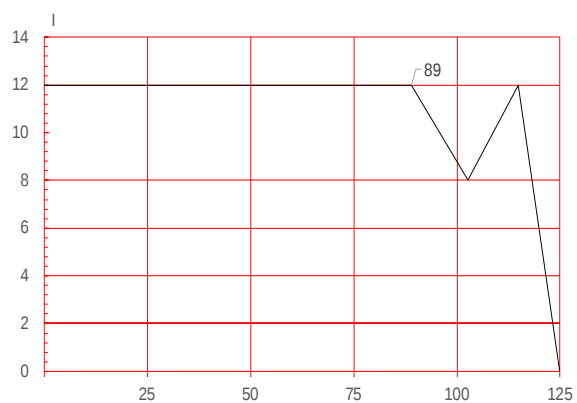
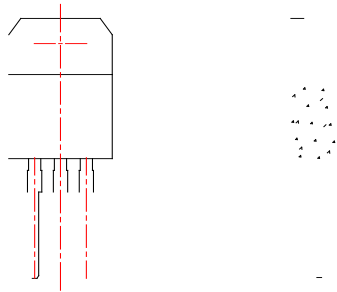
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FIG.1: Maximum power dissipation versus RMS on-state current**FIG.2:** RMS on-state current versus case temperature

JCT612A

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PACKAGE MECHANICAL DATA



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