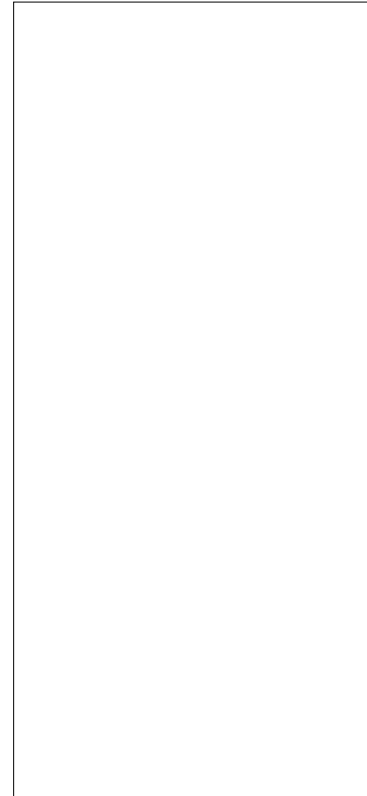


**DESCRIPTION:**

With high ability to withstand the shock loading of large current, JCT625A SCR 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, JCT625A provides a rated insulation voltage of 2500 V<sub>RMS</sub>, 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 <sub>stg</sub>	-40-150	
Operating junction temperature range	T <sub>j</sub>	-40-125	
Repetitive peak off-state voltage (T <sub>j</sub> =25 °C)	V <sub>DRM</sub>	600	V
Repetitive peak reverse voltage (T <sub>j</sub> =25 °C)	V <sub>RRM</sub>	600	V
Average on-state current (T <sub>c</sub> 061 °C)	I <sub>T(AV)</sub>	16	A
RMS on-state current (T <sub>c</sub> 061 °C)	I <sub>T(RMS)</sub>	25	A
Non repetitive surge peak on-state current (t <sub>p</sub> =10ms, T <sub>j</sub> =25 °C)	I <sub>TSM</sub>	320	A
Non repetitive surge peak on-state current (t <sub>p</sub> =8.3ms, T <sub>j</sub> =25 °C)		352	
I <sup>2</sup> t value for fusing (t <sub>p</sub> =10ms, T <sub>j</sub> =25 °C)	I <sup>2</sup> t	512	A <sup>2</sup> s



ORDERING INFORMATION

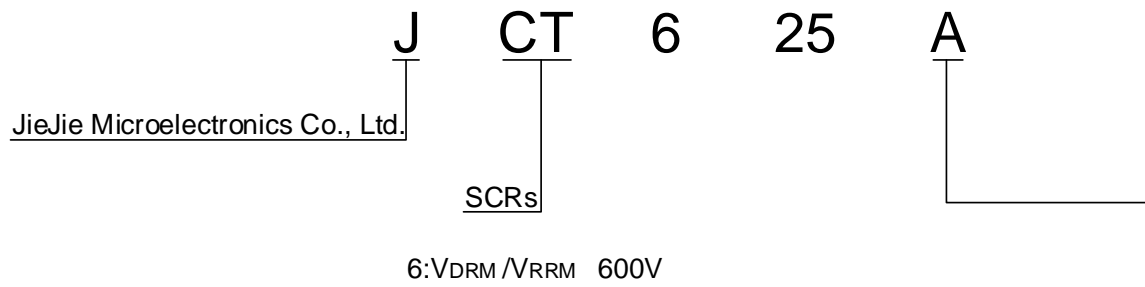


FIG.1: Maximum power dissipation versus RMS on-state current

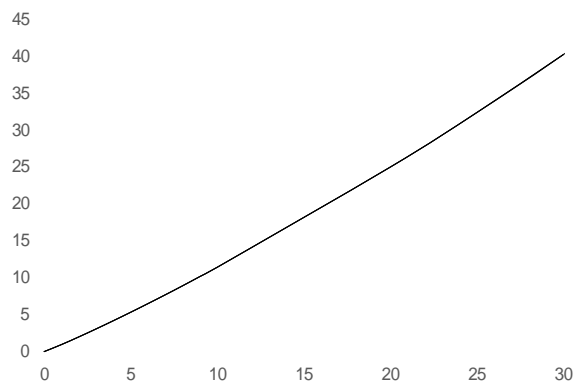


FIG.2: RMS on-state current versus case temperature



## ORDERING INFORMATION

Order code	Voltage $V_{DRM}/V_{RRM}$ (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
JCT625A	600	20 00			

JCT625A

Jie Jie Microelectronics Co., Ltd.

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PACKAGE MECHIC2 re f1JLT 68.2 (A)]TJ 0 Tc 0 Tw ( )Tj EMC ET /InlineShape <</M

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