

JCT1640A 40A SCR

Rev.A.1.1

DESCRIPTION:

With high ability to withstand the shock loading of large current, JCT1640A 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, JCT1640A provides a rated insulation voltage of 2500 V_{RMS}, complying with UL standards (File ref: E252906). Package TO-220A is RoHS compliant.



MAIN FEATURES

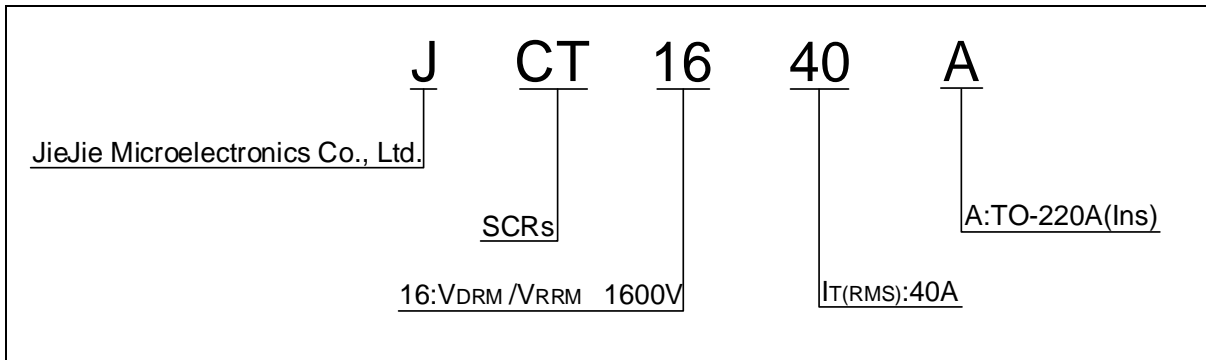
Symbol	Value	Unit
I _{T(RMS)}	40	A

V_{DRM}/V_{RRM}

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 °C)	V _{DRM}	1600	V
Repetitive peak reverse voltage (T _j =25 °C)	V _{RRM}	1600	V
Average on-state current (T _c 054 °C)	I _{T(AV)}	25	A
RMS on-state current (T _c 054 °C)	I _{T(RMS)}	40	A
Non repetitive surge peak on-state current (t _p =10ms, T _j =25 °C)	I _{TSM}	400	A
Non repetitive surge peak on-state current (t _p =8.3ms, T _j =25 °C)		430	
I ² t value for fusing (t _p =10ms, T _j =25 °C)	I ² t	800	A ² s
Critical rate of rise of on-state current (I _G =2× I _{GT} , f=100Hz, T _j =125 °C)	di/dt	200	A/s

ORDERING INFORMATION



MARKING

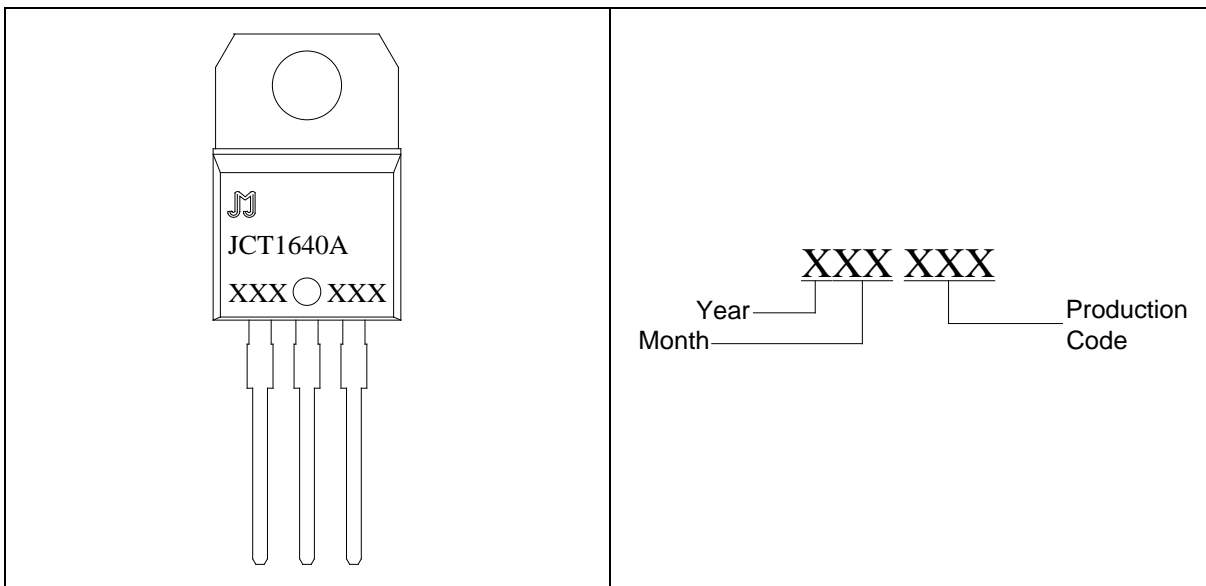
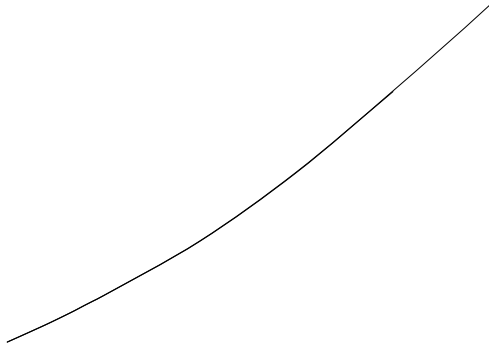


FIG.1: Maximum power dissipation versus RMS on-state current

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

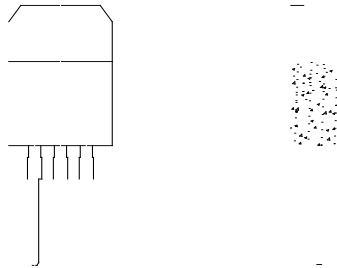


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PACKAGE MECHANICAL DATA



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