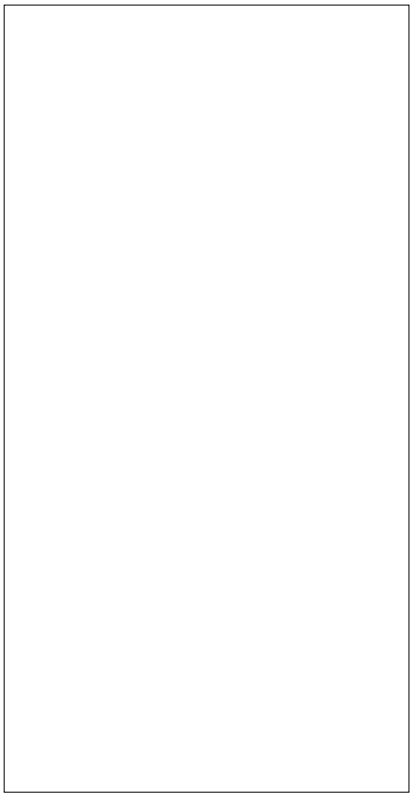
JCT1640A 40A SCR

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.



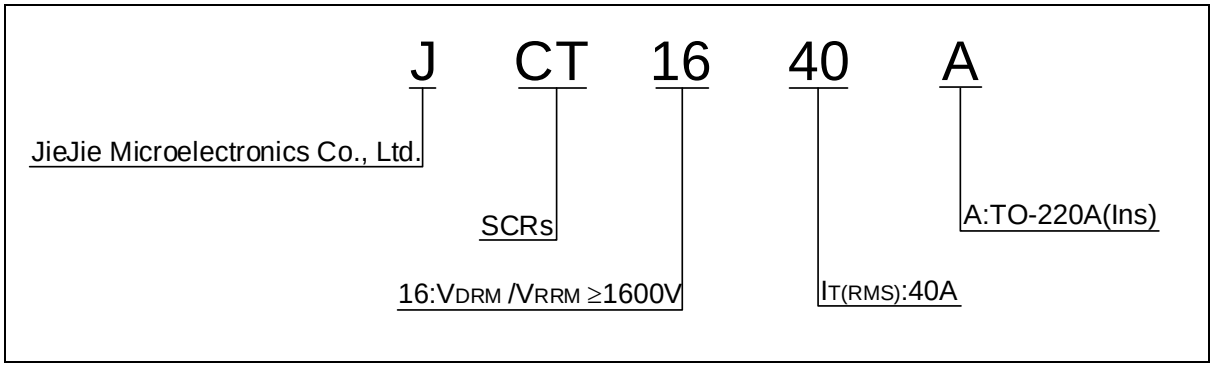
MAIN FEATURES

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)	V_{DRM}	1600	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	1600	V
Average on-state current (T_C 0 54)	$I_{T(AV)}$	25	A
RMS on-state current (T_C 054)	$I_{T(RMS)}$	40	A
Non repetitive surge peak on-state current (t_p=10ms, T_j=25)	I_{TSM}	400	A
Non repetitive surge peak on-state current (t_p=8.3ms, T_j=25)		430	
I^2t value for fusing (t_p=10ms , T_j=25)	I^2t	800	A^2s
Critical rate of rise of on-state current (I_G=2× I_{GT}, f=100Hz , T_j=125)	dI/dt	200	A s

ORDERING INFORMATION



MARKING

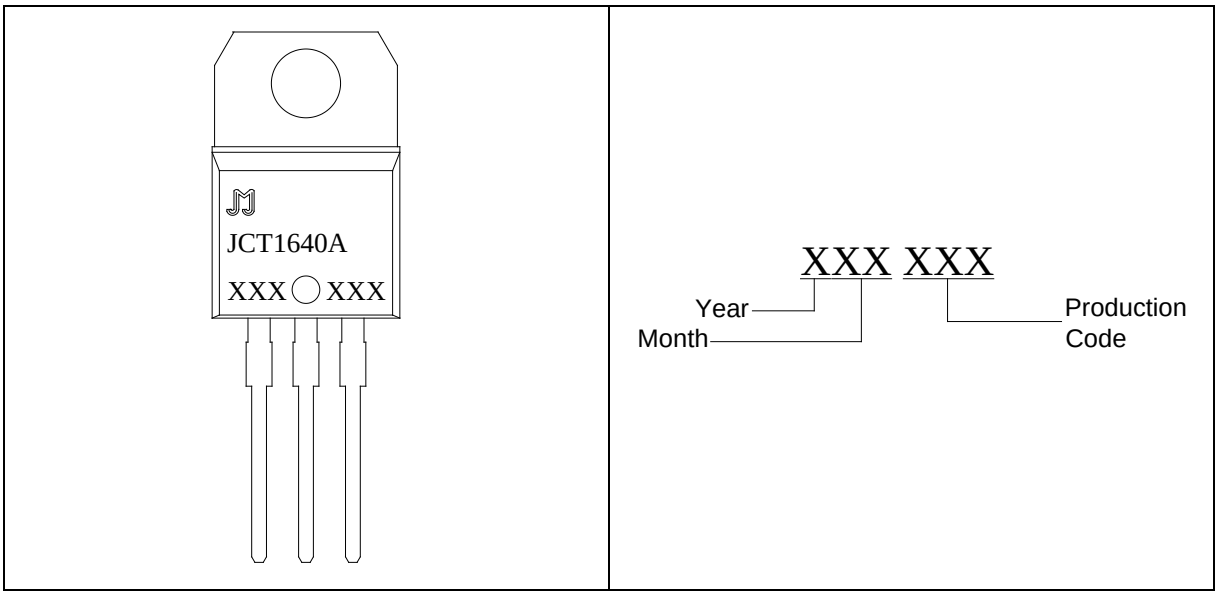


FIG.1: Maximum power dissipation versus RMS on-state current

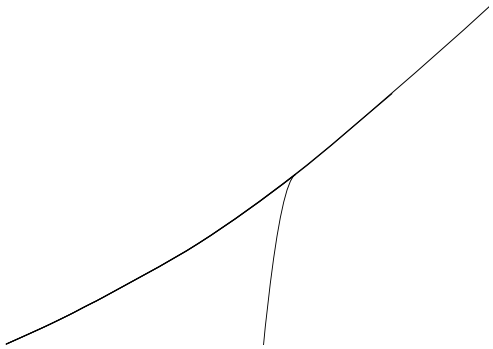
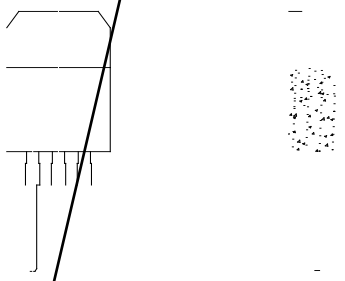


FIG.2: RMS on-state current versus case temperatureI

JCT1640A

PACKAGE MECHANICAL DATA



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