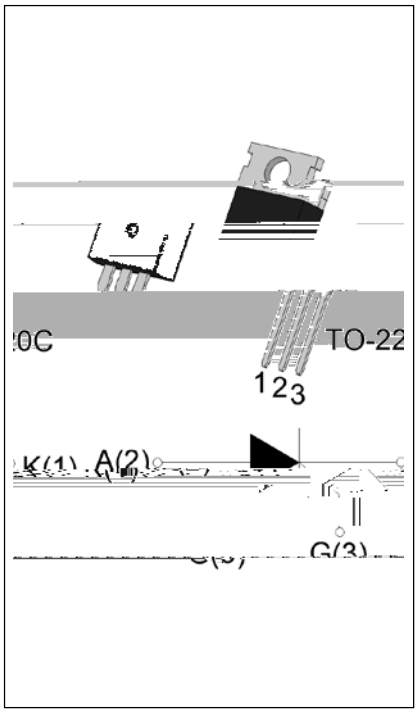
JCT1630C 30A SCR

Rev.A.1.1

DESCRIPTION:

With high ability to withstand the shock loading of large current, JCT1630C 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. Package TO-220C is RoHS compliant.



MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	30	A
V_{DRM} /V_{RRM}	1600	V
I_{GT}	40	mA

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 ($T_C \leq$ 86)	$I_{T(AV)}$	19	A
RMS on-state current ($T_C \leq$ 86)	$I_{T(RMS)}$	30	A
Non repetitive surge peak on-state current (t_p=10ms , T_j=25)	I_{TSM}	300	A
Non repetitive surge peak on-state current (t_p=8.3ms , T_j=25)		320	
I^2t value for fusing (t_p=10ms , T_j=25)	I^2t	450	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
Peak gate current (t_p=20 s , T_j=125)	I_{GM}	10	A

Average gate power dissipation (T_j=125 Rank2 Tel0 Tw o Q E Tc 0 Tw 8.04 87 45664.28 78jc 0 T

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FIG.7

PACKAGE MECHANICAL DATA