

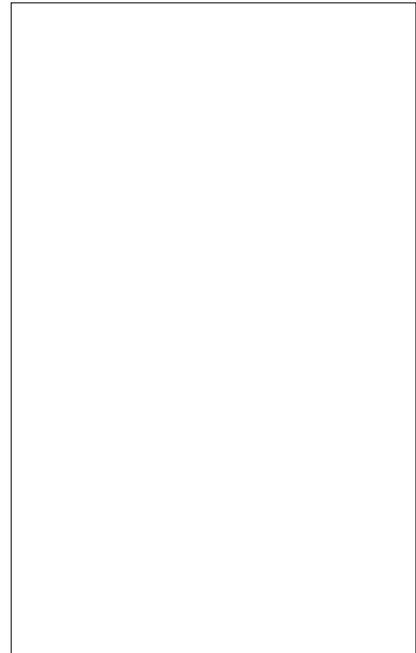


JCT640CH 40A SCR

Rev.A.1.1

DESCRIPTION:

With high  
 640CH SCR  
 It is especially  
 suitable for  
 switching  
 -220C



MAIN FEATURES

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage temperature	$T_s$	-40-150	
Operating temperature	$T_j$	-40-150	
Reverse peak voltage (T <sub>j</sub> =25 °C)	$V_{DRM}$	600	V
Reverse peak voltage (T <sub>j</sub> =25 °C)	$V_{RRM}$	600	V
Average current (T <sub>c</sub> 134 °C)	$I_{T(AV)}$	25	A
RMS current (T <sub>c</sub> 134 °C)	$I_{T(RMS)}$	40	A
Non-repetitive peak current (t <sub>p</sub> =10ms, T <sub>j</sub> =25 °C)	$I_{TSM}$	500	A
Non-repetitive peak current (t <sub>p</sub> =8.3ms, T <sub>j</sub> =25 °C)		540	
Surge current (t <sub>p</sub> =10ms, T <sub>j</sub> =25 °C)	$I^2t$	1250	A <sup>2</sup> s
Gate current (I <sub>G</sub> =2x I <sub>GT</sub> , f = 100Hz)	di/dt	180	A/μs
Peak gate current (t <sub>p</sub> =20μs, T <sub>j</sub> =150 °C)	$I_{GM}$	10	A
Average gate power (T <sub>j</sub> =150 °C)	$P_{G(AV)}$	1	W



ORDERING INFORMATION

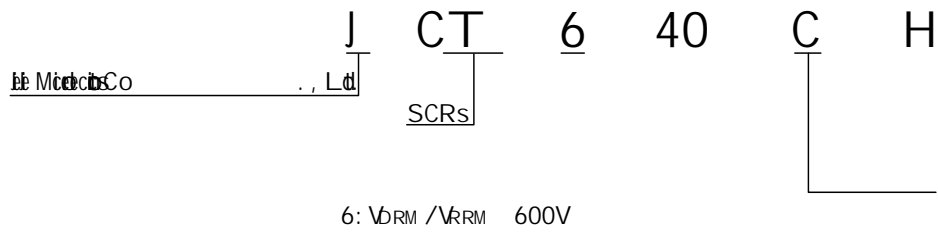


FIG.1:  $M_{avg}$  vs  $I_{avg}$   
RMS  $d$  vs  $I_{avg}$

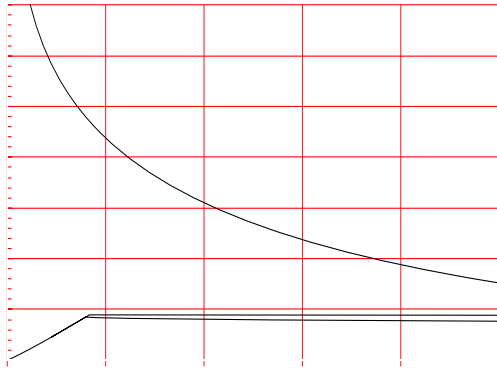


FIG.2: RMS  $d$  vs  $I_{avg}$   
 $d_{peak}$  vs  $I_{avg}$







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