

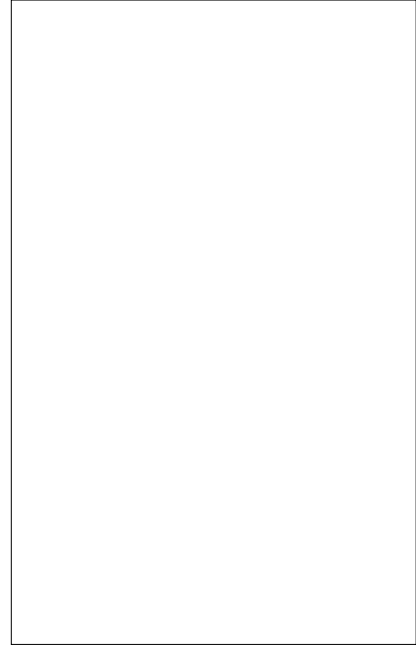


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## DESCRIPTION:

With high ability to withstand the shock loading of large current, JCT1240C 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



## ABSOLUTE MAXIMUM RATINGS



Peak gate power	$P_{GM}$	20	W
Peak pulse voltage ( $T_j=25$ ; non-repetitive,off-state;FIG.7)	$V_{pp}$	0.7	kV

### ELECTRICAL CHARACTERISTICS ( $T_j=25$ unless otherwise specified)

$I_{GT}$	$V_D=12V R_L=33$	-	-	45	mA
$V_{GT}$		-	-	1	V
$V_{GD}$	$V_D=V_{DRM} T_j=125 R_L=3.3K$	0.2	-	-	V
$I_L$	$I_G=1.2I_{GT}$	-	-	120	mA
$I_H$	$I_T=500mA$	-	-	100	mA
dV/dt	$V_D=800V$ Gate Open $T_j=125$	1500	-	-	V/ $\mu s$
$t_{on}$	$I_G=50mA I_A=500mA I_R=50mA$ $T_j=25$	-	5	-	$\mu s$
$t_{off}$		-	100	-	

### STATIC CHARACTERISTICS

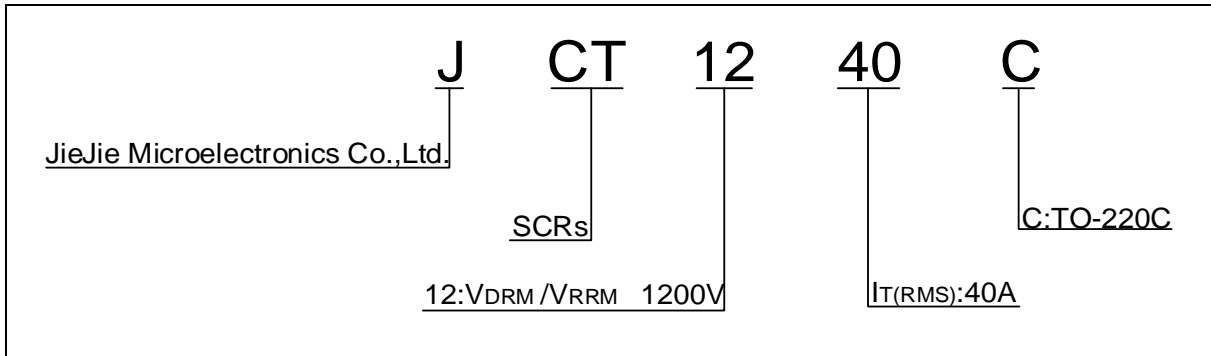
$V_{TM}$	$I_{TM}=80A t_p=380\mu s$	$T_j=25$	1.7	V
$V_{TO}$	Threshold voltage	$T_j=125$	0.69	V
$R_D$	Dynamic resistance	$T_j=125$	21	m
$I_{DRM}$	$V_D=V_{DRM} V_R=V_{RRM}$	$T_j=25$	10	$\mu A$
$I_{RRM}$		$T_j=125$	5	mA

### THERMAL RESISTANCES

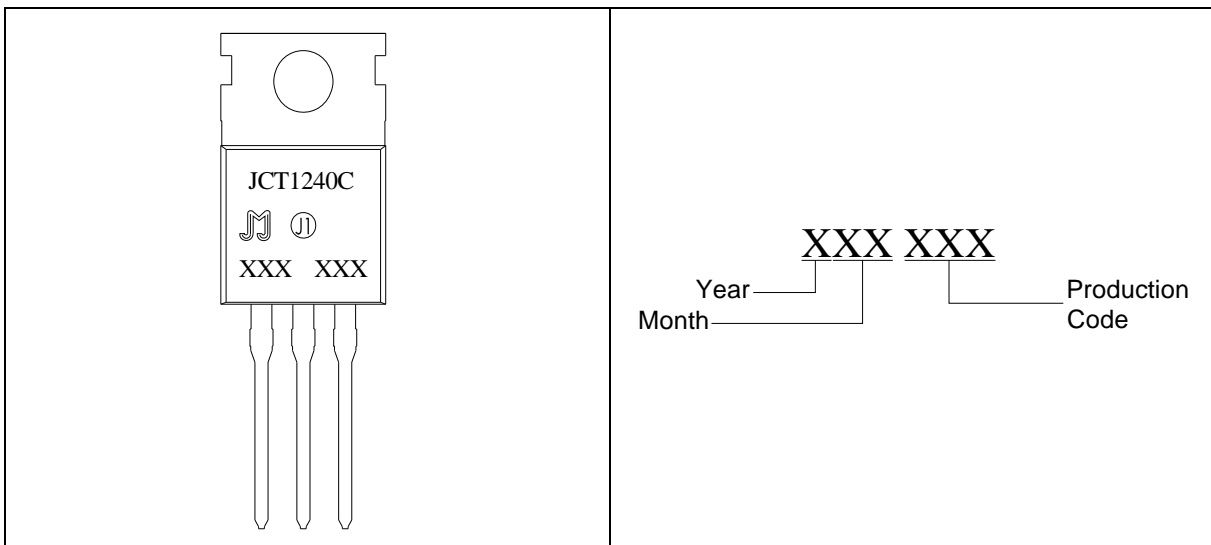
$R_{th(j-c)}$	junction to case(DC)	0.5	/W
$R_{th(j-a)}$	junction to ambient (DC)	55	/W



## ORDERING INFORMATION

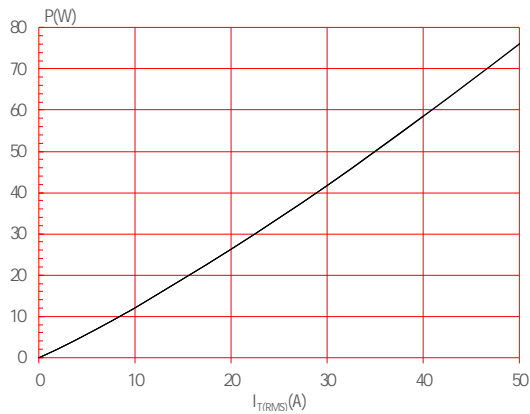


## MARKING

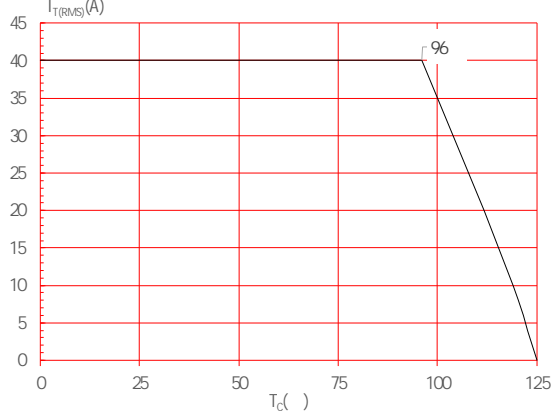




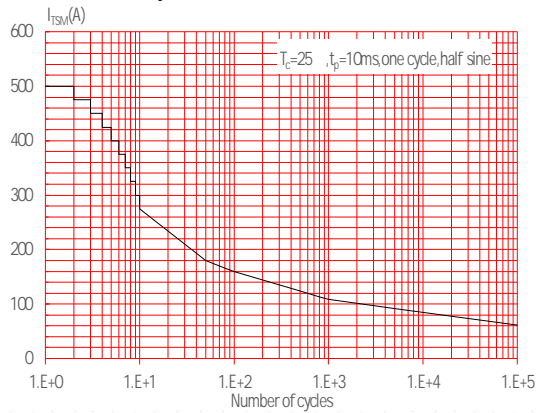
Maximum power dissipation versus RMS on-state current



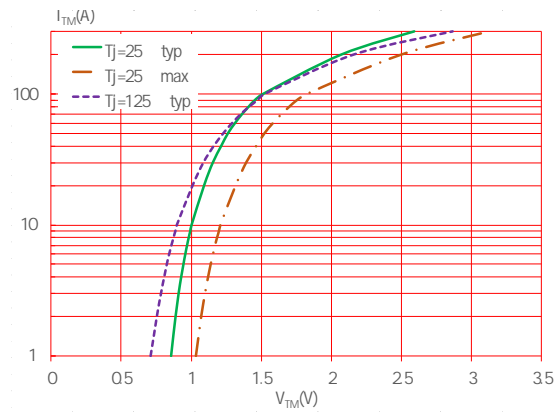
RMS on-state current versus case temperature



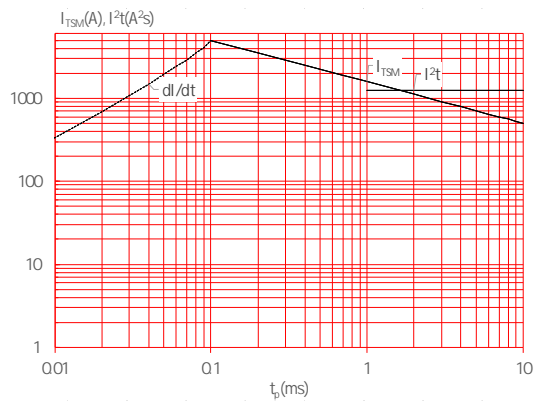
Surge peak on-state current versus number of cycles



On-state characteristics



Non-repetitive surge peak on-state current for a sinusoidal pulse with width  $t_p < 10\text{ms}$ , and corresponding value of  $I^2t$  ( $di/dt < 200\text{A}/\mu\text{s}$ )



Relative variations of gate trigger current, holding current and latching current versus junction temperature

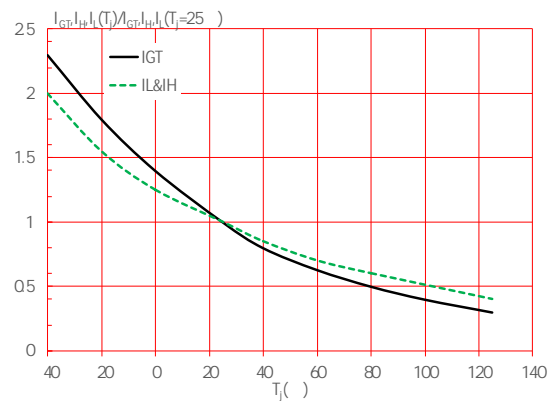
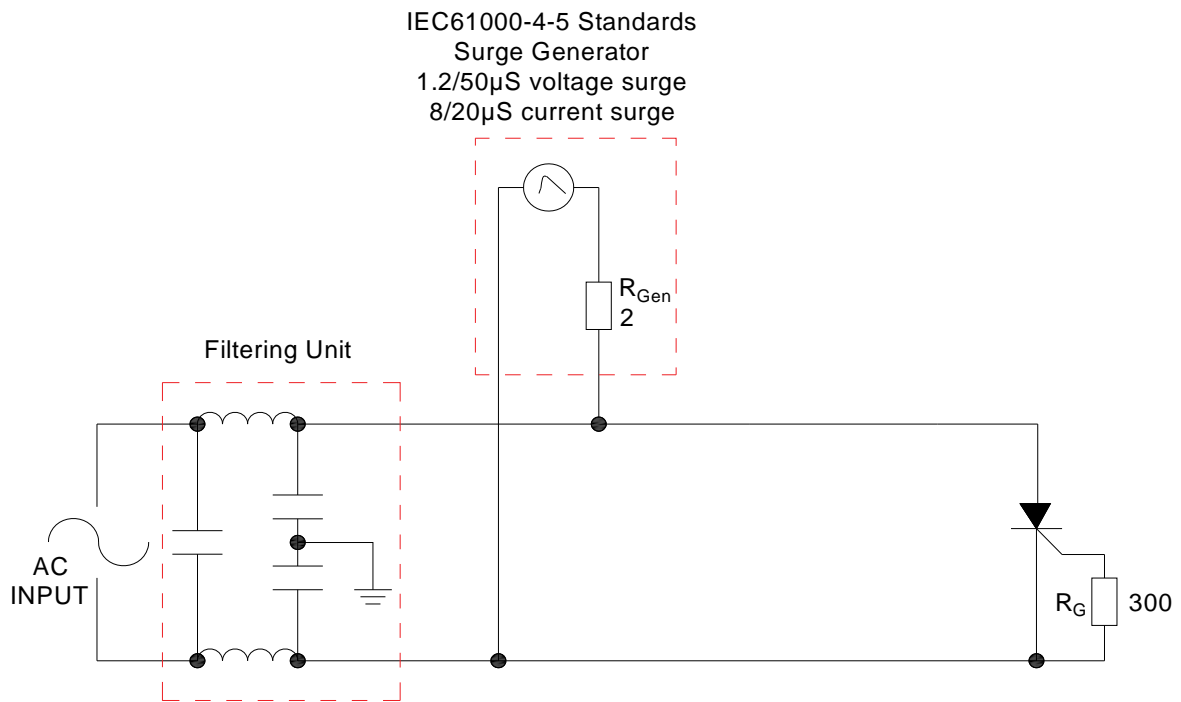




FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards.



## SHAPING AND SOLDERING PARAMETERS

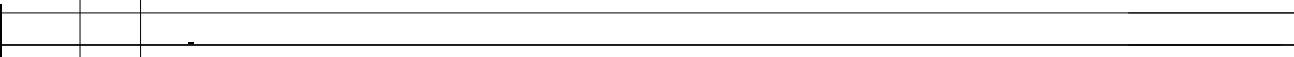
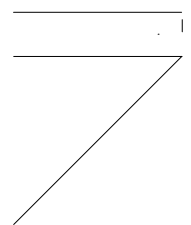
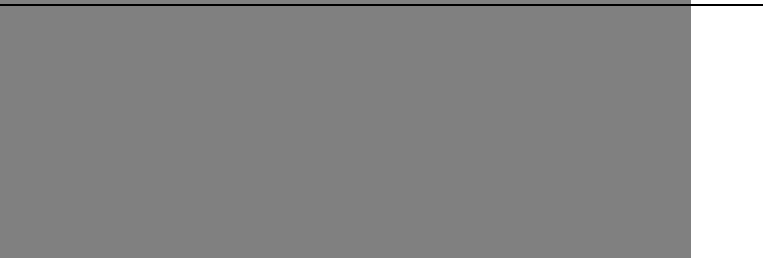
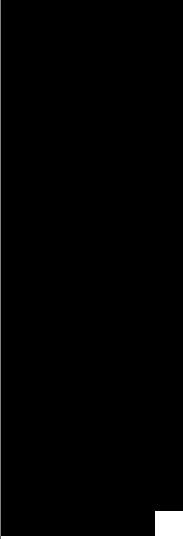
Refer to Instructions for installation of plastic-sealed in-line power devices released by JieJie



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## ORDERING INFORMATION


Date	Revision	Changes
Apr.13, 2023	A.1.0	Last update



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