



JCT620A 20A SCR

Rev.A.1.1

DESCRIPTION:

With high ability to withstand the shock loading of large current, JCT620A 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, JCT620A provides a rated insulation voltage of 2500 V_{RMS}, complying with UL standards (File ref: E252906). Package TO-220A is RoHS compliant.



MAIN FEATURES

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit/MCID 11 >>BD
cF Tm [(P)1 76.(ac2ar)8.9 (F)R(t)2epe9 (ea (t)29 (ea (t)2v h)9.e pt)-10akill0-			
69 (F)R(t)2epe9 (ea (t)29 (ea (t)2v h)9.e pt)-10ak)v heaac 0 Tw [()5 (i)6 (l)6 w 0.222 0 T 14.04 70.92 314k.9 /			



Peak gate current ($t_p=20\text{ s}$, $T_j=125\text{ }^\circ\text{C}$)	I_{GM}	5	A
Average gate power dissipation ($T_j=125\text{ }^\circ\text{C}$)	$P_{G(AV)}$	1	W
Peak gate power	P_{GM}	20	W
Peak pulse voltage ($T_j=25\text{ }^\circ\text{C}$; non-repetitive, off-state; FIG.7)	V_{pp}	0.5	kV

ELECTRICAL CHARACTERISTICS (unless otherwise specified)

Symbol	Test Condition	Value			Unit
		MIN.	TYP.	MAX.	
I_{GT}	$V_D=12\text{V}$ $R_L=33\text{ }\Omega$	-	-	15	mA
V_{GT}		-	-	1	V
V_{GD}	$V_D=V_{DRM}$ $T_j=125\text{ }^\circ\text{C}$ $R_L=3.3\text{k}\Omega$	0.2	-	-	V

ORDERING INFORMATION

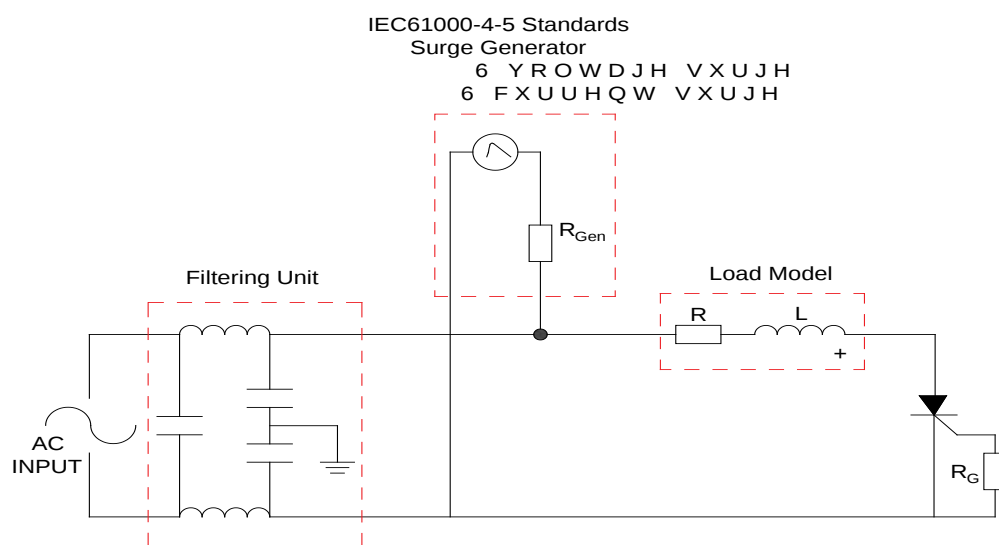
<u>J</u>	<u>CT</u>	<u>6</u>	<u>20</u>	<u>A</u>
JieJie Microelectronics Co., Ltd.	SCRs			A:TO-220A(Ins)
		6:V _{DRM} /V _{RRM} 1600V		
			I _{T(RMS)} :20A	

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

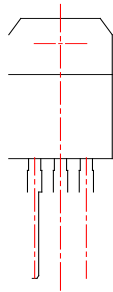


FIG.2: RMS on-state current versus case
temperature

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



PACKAGE MECHANICAL DATA



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