



JX075H 12A Sensitive SCR

Rev.A.1.1

DESCRIPTION:

The JX075H SCR provides high dV/dt rate with strong resistance to electromagnetic interface. It is especially recommended for use on residual current circuit breaker, straight hair, igniter etc. Package TO-251 is RoHS compliant.

MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	12	A
V_{DRM}/V_{RRM}	800	V
I_{GT}	200	A

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40-150	
Operating junction temperature range	T_j	-40-110	
Repetitive peak off-state voltage ($T_j=25^\circ\text{C}$)	V_{DRM}	800	V
Repetitive peak reverse voltage ($T_j=25^\circ\text{C}$)	V_{RRM}	800	V
Average on-state current ($T_c 078^\circ\text{C}$)	$I_{T(AV)}$	7.5	A

RMS on-state current $I_{T(RMS)}$ 12A $V_{T0.95}$ 315.6V $f_{T0.95}$ 0.48kHz $f_{T0.95}$ 0.48kHz $V_{T0.95}$ 383.04V $V_{T0.95}$ 338.88V $f_{T0.95}$ 128Hz $f_{T0.95}$ 5264Hz $T_m(j)$ T_j -0.004 T_c 0.00

Peak gate power	P_{GM}	10	W
Peak pulse voltage ($T_j=25$; non-repetitive, off-state; FIG.7)	V_{pp}	0.5	kV

ELECTRICAL CHARACTERISTICS (T_j unless otherwise specified)

Symbol	Test Condition	Value			Unit
		MIN.	TYP.	MAX.	
I_{GT}	$V_D=12V$ $R_L=33$	-	60	200	A
V_{GT}		-	-	0.8	V
V_{GD}	$V_D=V_{DRM}$ $T_j=110$	0.2	-	-	V
I_L	$I_G=1.2 I_{GT}$	-	-	6	mA
I_H	$I_T=0.05A$	-	-	5	mA
dV/dt	$V_D=540V$ $T_j=25$ $R_{GK}=1k$	50	-	-	V/s
	$V_D=540V$ $T_j=25$ $R_{GK}=\infty$	200	-	-	

t_{on}	$I_G=10mA$ $I_A=20mA$ $I_R=2mA$ $T_j=25$	-	2	-	s	t-	s
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ORDERING INFORMATION

<u>J</u>	<u>X</u>	<u>075</u>	<u>H</u>
JieJie Microelectronics Co., Ltd.			
	Sensitive gate SCRs		
	$I_T(AV):7.5A$		
			H:TO-251

MARKING

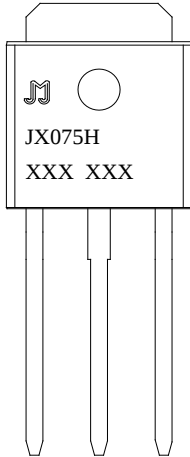
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Year			Production										
Month			Code										

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

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

JX075H

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PACKAGE MECHANICAL DATA

