



JX011U 1A Sensitive SCR

Rev.A.2.1

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The JX011U SCR provides high dV/dt rate
with strong resistance to electromagnetic

Peak gate power	P_{GM}	2	W
Peak pulse voltage ($T_j=25^{\circ}\text{C}$; non-repetitive,off-state;FIG.7)	V_{pp}	1	kV

NOTE 1: Operating junction temperature T_j is up to 125 $^{\circ}\text{C}$ when a resistor $\leq 1\text{k}\Omega$ is connected between Gate and Cathode. Without this resistor, the T_j is up to 110 $^{\circ}\text{C}$ only.

$\geq 100\text{V}/\mu\text{s}$, $\geq 100\text{V}/\mu\text{s}$ (unless otherwise specified)

Symbol	Test Condition	Value			Unit
		MIN.	TYP.	MAX.	
I_{GT}	$V_D=12\text{V}$ $R_L=33\Omega$	-	40	200	μA
V_{GT}		-	0.6	0.8	V
V_{GD}	$V_D=V_{DRM}$ $T_j=125^{\circ}\text{C}$	0.2	-	-	V
I_L	$I_G=1.2 I_{GT}$	-	-	5	mA
I_H	$I_T=0.05\text{A}$	-	-	4	mA
dV/dt	$V_D=540\text{V}$ $T_j=125^{\circ}\text{C}$ $R_{GK}=1\text{k}\Omega$	200	-	-	V/ μs
	$V_D=540\text{V}$ $T_j=125^{\circ}\text{C}$ $R_{GK}=220\Omega$	500	-	-	
t_{on}	$I_G=10\text{mA}$ $I_A=20\text{mA}$ $I_R=2\text{mA}$	-	2	-	μs
t_{off}	$T_j=25^{\circ}\text{C}$	-	50	-	μs

$\geq 100\text{V}/\mu\text{s}$, $\geq 100\text{V}/\mu\text{s}$

Symbol	Parameter	Value(MAX.)	Unit
V_{TM}	$I_T=2\text{A}$ $t_p=380\mu\text{s}$ $T_j=25^{\circ}\text{C}$	1.4	V

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Sensitive gate SCRs

Part number

U:TO-92

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

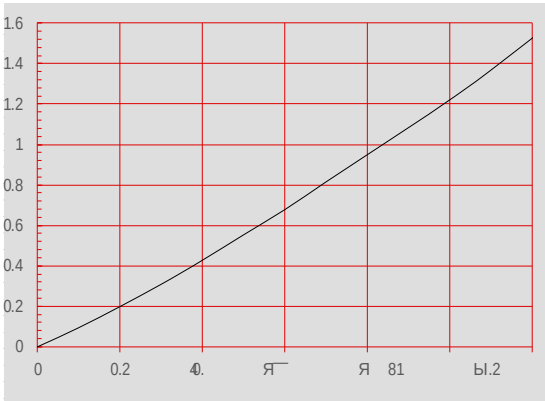


FIG.2: RMS on-state current versus case temperature

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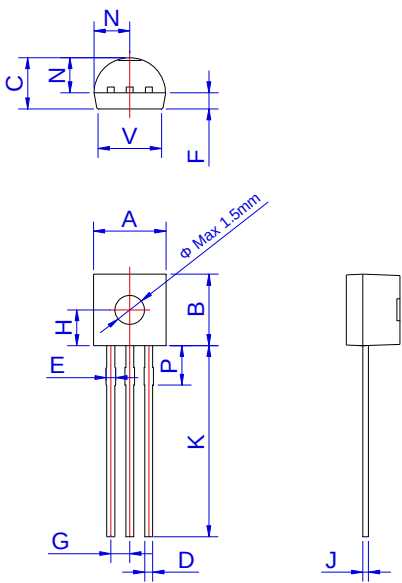
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Order code	Voltage V _{DRM} /V _{RRM} (V)	IGT(εA)	Package	Base qty. (pcs)	Delivery mode
JX011U	800	0200	TO-92	1,000	Bulk Pack
JX011U-TR				2,000	Tape & Reel

Document Revision History

Date	Revision	Changes
Apr.12, 2023	A.1.0	Last update
Mar.28, 2025	A.2.0	Renew PACKAGE MECHANICAL DATA
Sept.28, 2025	A.2.1	Revise PACKAGE MECHANICAL DATA

W < ' D , E / > d



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	4.45		5.20	0.175		0.205
B	4.32		5.33	0.170		0.210
C	3.18		4.19	0.125		0.165
D	0.407		0.533	0.016		0.021
E	0.50		0.70			
F	1.10					
G				0.043		
H	2.20			0.087		
J	0.36		0.50	0.014		0.020
K	12.70		15.0	0.500		0.591
N	2.04		2.66	0.080		0.105
P	1.80	10	2.30	0.071		0.091
V	4.10		4.50	0.161		0.177

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