

**JX012N2 1.25A Sensitive SCR**

Rev.A.1.1

DESCRIPTION:

The JX012N2 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 SOT-89-2L is RoHS compliant.

MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	1.25	A
V_{DRM}/V_{RRM}	1200	V
I_{GT}	≤ 200	μA

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 ($T_j=25^\circ C$)	V_{DRM}	1200	V
Repetitive peak reverse voltage ($T_j=25^\circ C$)	V_{RRM}	1200	V
Average on-state current ($T_c \leq 49^\circ C$)	$I_{T(AV)}$	0.8	A
RMS on-state current ($T_c \leq 49^\circ C$)	$I_{T(RMS)}$	1.25	A
Non repetitive surge peak on-state current ($t_p=10ms$, $T_j=25^\circ C$)	I_{TSM}	20	A
Non repetitive surge peak on-state current ($t_p=8.3ms$, $T_j=25^\circ C$)		22	

ORDERING INFORMATION

<u>J</u>	<u>X</u>	<u>012</u>	<u>N2</u>
JieJie Microelectronics Co., Ltd.	Sensitive gate SCRs	Part number	N2:SOT-89-2L

MARKING

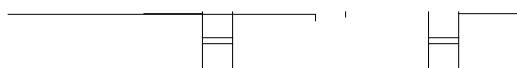
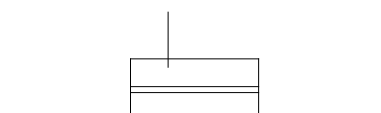


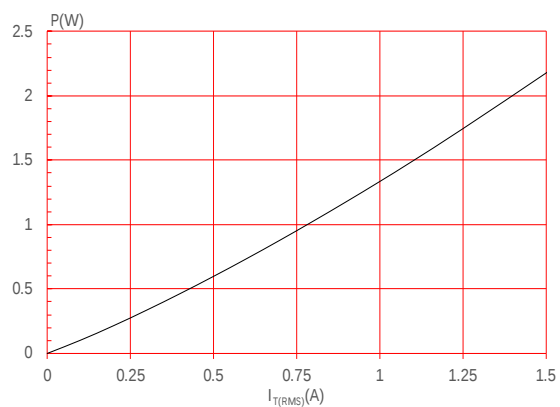
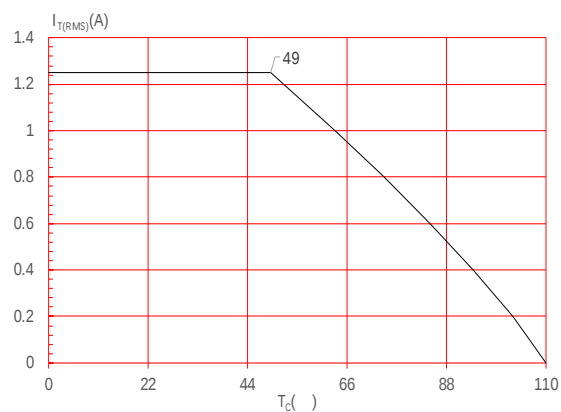
FIG.1: Maximum power dissipation versus RMS on-state current**FIG.3:** RMS on-state current versus ambient temperature (printed circuit board FR4,copper)**FIG.2:** RMS on-state current versus case temperature

FIG.7: Relative variations of gate trigger current,

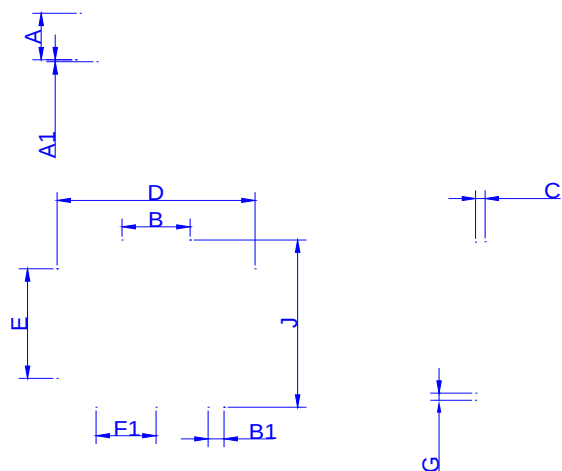
ORDERING INFORMATION

Order code	Voltage $V_{\text{DRM}}/V_{\text{RRM}}$ (V)	IGT(μA)	Package	Base qty. (pcs)	Delivery mode
JX012N2	1200	≤ 200	SOT-89-2L	4,000	Tape & Reel

Document Revision History

Date	Revision	Changes
Apr.12, 2023	A.1.0	Last update
Oct.16, 2025	A.1.1	Revise PACKAGE MECHANICAL DATA

PACKAGE MECHANICAL DATA



Technical drawing of a shaft-hub assembly. The main view shows a shaft with diameter ϕD and a hub with outer diameter ϕD_1 . The shaft has a keyway with width P and depth A . The hub has a keyway with width P_0 and depth A_0 . The hub has a total width W and a flange thickness E . The shaft has a total length L . Section lines A-A and B-B are indicated. Section A-A is a longitudinal section through the keyway. Section B-B is a transverse section through the shaft and hub.

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
E	1.65	1.75	1.85	0.065	0.069	0.073
F	5.45	5.50	5.55	0.215	0.217	0.219
P2	1.90	2.00	2.10	0.075	0.079	0.082
D	-	1.50	1.60	-	0.059	0.063
D1	1.50			0.059		
P0	3.90	4.00	4.10	0.154	0.157	0.161
10P0	39.80	40.00	40.20	1.567	1.575	1.583
W			12.30			0.482
P	7.90	8.00	8.10	0.311	0.315	0.319
A0	5.20	5.30	5.40	0.204	0.208	0.212
B0	4.80	4.90	5.00	0.188	0.192	0.196
K0	1.75	1.85	1.95	0.069	0.073	0.076
t	0.20	0.25	0.30	0.008	0.010	0.012
θ	3°		5°	3°		5°

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