MSKSEMI 美森科













ESD

TV

TSS

MOV

GDT

PIFD

RS2MW(MS)

Product specification





Surface Mount Fast Recovery Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 2 A

PACKAGE OUTLINE	PINNING		Marking
2	PIN	DESCRIPTION	
	1	Cathode	2F7
—	2	Anode	

Features

- FEATURES
- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Ideal for automated placement
- Fast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/ EU directives

MECHANICAL DATA

- Case: SOD- 123FL
- Terminals: Solderable per MIL-STD-750 , Method 2026
- Approx. Weight:15mg 0 .00053oz

Absolute Maximum Ratings and Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS voltage	V _{RMS}	700	V
Maximum DC Blocking Voltage	V _{DC}	1000	V
Maximum Average Forward Rectified Current at T_c = 125 °C	I _{F(AV)}	2	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	IFSM	50	А
Maximum Forward Voltage at 2 A	V_{F}	1.3	V
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125 ^{\circ}\text{C}$	l R	5 100	μΑ
Typical Junction Capacitance at V_R =4 V_s = 1 MHz	Cj	30	pF
Maximum Reverse Recovery Time (1)	t _{rr}	500	ns
Typical Thermal (2) Resistance	RθJA R _{θJC}	75 22	°C/W
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150	${\mathfrak C}$

⁽¹⁾ Measured with IF = 0.5 A, IR = 1 A, I rr = 0.25 A.

⁽²⁾ P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



Fig.1 Forward Current Derating Curve

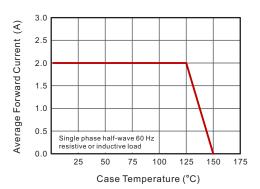


Fig.3 Typical Instaneous Forward Characteristics

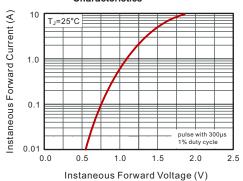


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

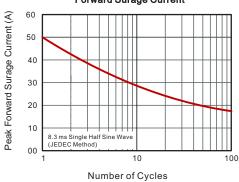


Fig.2 Typical Reverse Characteristics

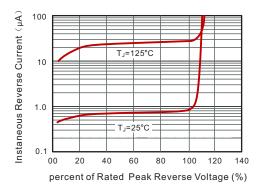
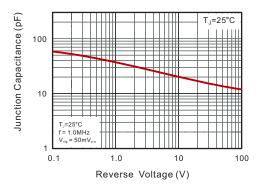
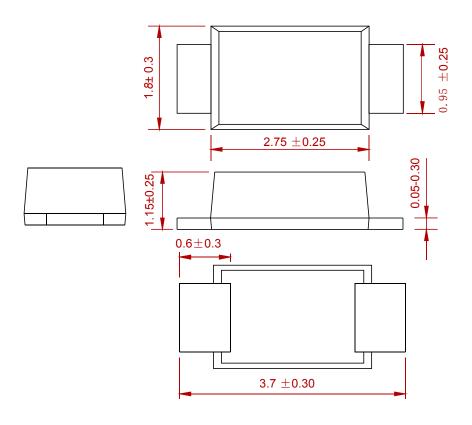


Fig.4 Typical Junction Capacitance



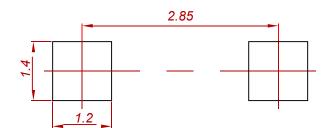


PACKAGE MECHANICAL DATA



Dimensions in millimeters

Suggested Pad Layout



Note:

- 1.Controlling dimension:in millimeters. 2.General tolerance:±0.05mm.
- 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
RS2MW(MS)	SOD-123FL	3000



Attention

- Any and all MSKSEMI Semiconductor products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your MSKSEMI Semiconductor representative nearest you before using any MSKSEMI Semiconductor products described or contained herein in such applications.
- MSKSEMI Semiconductor assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all MSKSEMI Semiconductor products described or contained herein.
- Specifications of any and all MSKSEMI Semiconductor products described or contained herein stipulate the performance, characteristics, and functions of the described products in the independent state, and are not guarantees of the performance, characteristics, and functions of the described products as mounted in the customer's products or equipment. To verify symptoms and states that cannot be evaluated in an independent device, the customer should always evaluate and test devices mounted in the customer'sproducts or equipment.
- MSKSEMI Semiconductor. strives to supply high-quality high-reliability products. However, any and all semiconductor products fail with someprobability. It is possiblethat these probabilistic failures could give rise to accidents or events that could endanger human lives, that could give rise to smoke or fire, or that could cause damage to other property. When designing equipment, adopt safety measures so that these kinds of accidents—or events cannot occur. Such measures include but are not limited to protective circuits anderror prevention circuitsfor safedesign, redundant design, and structural design.
- In the event that any or all MSKSEMI Semiconductor products (including technical data, services) described or contained herein are controlled under any of applicable local export control laws and regulations, such products must not be exported without obtaining the export license from theauthorities concerned in accordance with the above law.
- No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or any information storage or retrieval system, or otherwise, without the prior written permission of MSKSEMI Semiconductor.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. MSKSEMI Semiconductor believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.
- Any and all information described or contained herein are subject to change without notice due to product/technology improvement, etc. Whendesigning equipment, refer to the "Delivery Specification" for the MSKSEMI Semiconductor productthat you intend to use.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rectifiers category:

Click to view products by MSKSEMI manufacturer:

Other Similar products are found below:

70HFR40 FR105 R0 RL252-TP 1N5397 1N4005-TR 1N4007-BP UFS120Je3/TR13 20ETS12S RRE02VS6SGTR MS306 A1N5404G-G CRF02(T5L,TEMQ) ACGRB207-HF CLH07(TE16L,Q) CLH03(TE16L,Q) 1N5395-TP UES1302 ACGRC307-HF ACEFC304-HF DZ-1380 85HFR60 40HFR60 70HF120 85HFR80 SCF7500 SM100 ACGRA4001-HF SKN70/08 NTE5819 NTE5827 NTE5828 NTE5911 NTE5915 NTE6104 NTE6163 NTE6164 NTE6165 NTE6364 TSD3G SET130312 NRVUS110VT3G UES1106 UES1306 NRVUS240VT3G D5FE60-5063 R4000GPS-TP D4015L56TP UES1306HR2 FX20K120 D20XB60-7101