# MSKSEMI 美森科













ESD

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PLED

# RS2MW(MS)

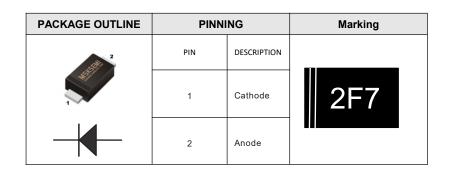
## Product specification





## RS2MW(MS)

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



#### 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%.

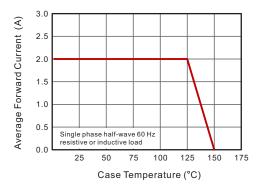
Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	1000	V
Maximum Average Forward Rectified Current at $T_c$ = 125 °C	I <sub>F(AV)</sub>	2	A
Peak Forward Surge Current 8 .3 ms Single Half Sine Wave Superimposed on Rated Load	IFSM	50	А
Maximum Forward Voltage at 2 A	VF	1.3	V
Maximum DC Reverse Current $T_a = 25 \ ^{\circ}C$ at Rated DC Blocking Voltage $T_a = 125 \ ^{\circ}C$	R	5 100	μA
Typical Junction Capacitance at V <sub>R</sub> =4V, f= 1MHz	Cj	30	pF
Maximum Reverse Recovery Time <sup>(1)</sup>	t <sub>rr</sub>	500	ns
Typical Thermal (2) Resistance	R <sub>øja</sub> R <sub>øjc</sub>	75 22	°C/W
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150	°C

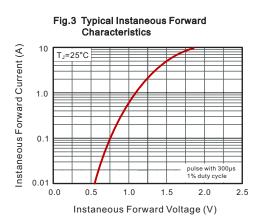
(1) Measured with IF = 0.5 A , IR = 1 A , I rr = 0.25 A .

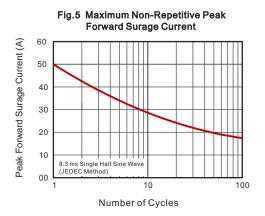
( 2 ) P.C.B . mounted with 2 .0" X 2 .0" (5 X 5 cm) copper pad areas .



#### Fig.1 Forward Current Derating Curve







#### Fig.2 Typical Reverse Characteristics

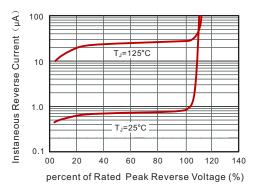
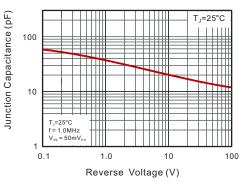
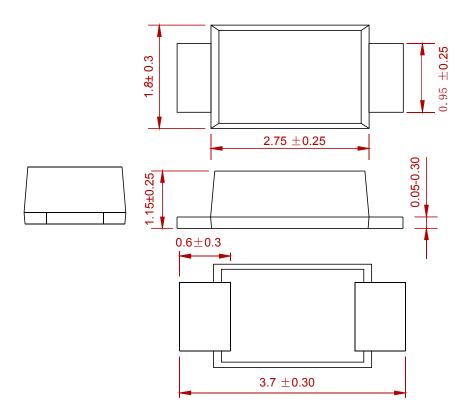


Fig.4 Typical Junction Capacitance



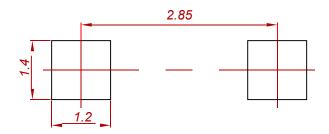


#### PACKAGE MECHANICAL DATA



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



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