

Marking code

2F2

2F5

2F7

Marking

Type number

RS2AW

RS2BW

RS2DW

RS2GW

RS2JW

RS2KW

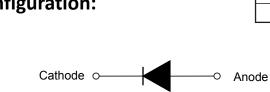
RS2MW

Surface Mount Fast Recovery Rectifiers

FEATURES:

- For surface mounted applications
- · Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Fast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EU directives

Circuit Diagram & Pin Configuration:



SOD-123FL

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	RS2AW	RS2BW	RS2DW	RS2GW	RS2JW	RS2KW	RS2MW	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T_c = 125 °C	I _{F(AV)}	2							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	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 $T_a = 125 ^{\circ}\text{C}$	I _R	5 100							μА
Typical Junction Capacitance at V _R =4V, f=1MHz	Cj	30							pF
Maximum Reverse Recovery Time (1)	t _{rr}	150 250 500					00	ns	
Typical Thermal Resistance (2)	$R_{ heta JA} \ R_{ heta JC}$	75 22							°C/W
Operating and Storage Temperature Range	T_{j},T_{stg}	-55 ~ +150							°C

^(1) Measured with $I_{\scriptscriptstyle F}$ = 0.5 A, $I_{\scriptscriptstyle R}$ = 1 A, $I_{\scriptscriptstyle rr}$ = 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

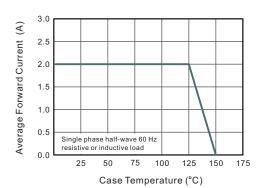


Fig.2 Typical Reverse Characteristics

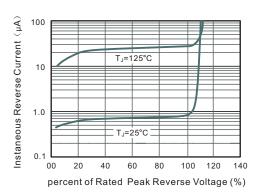


Fig.3 Typical Instaneous Forward Characteristics

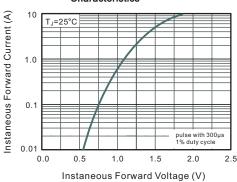


Fig.4 Typical Junction Capacitance

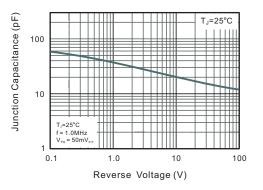
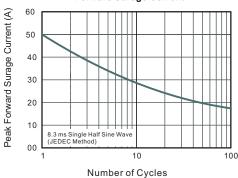


Fig. 5 Maximum Non-Repetitive Peak Forward Surage Current

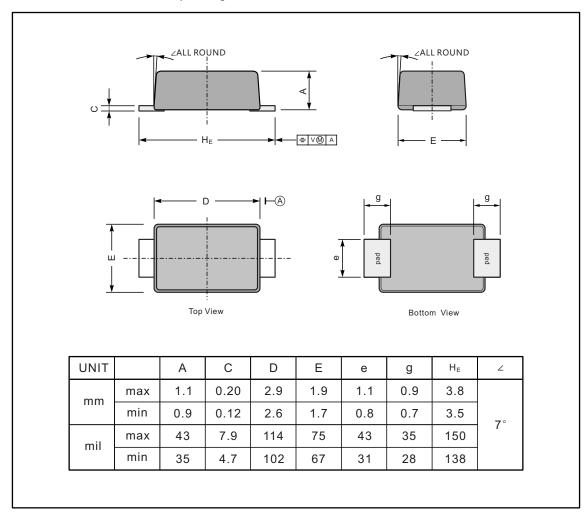




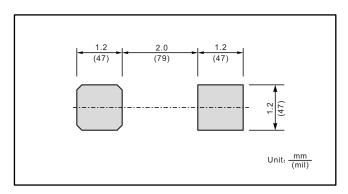
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



The recommended mounting pad size





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