

RS2AW THRU RS2MW

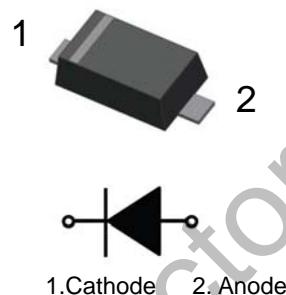
Reverse Voltage - 50 to 1000 V

Forward Current - 2 A

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

SOD-123FL



MECHANICAL DATA

- Case: SOD-123FL
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 15mg 0.00053oz

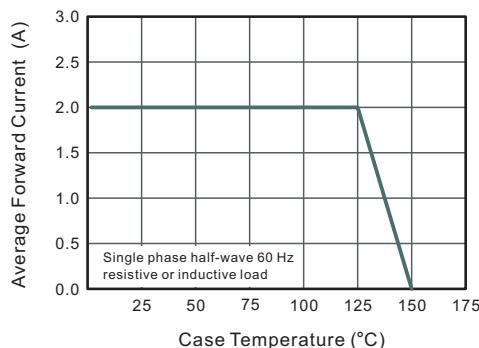
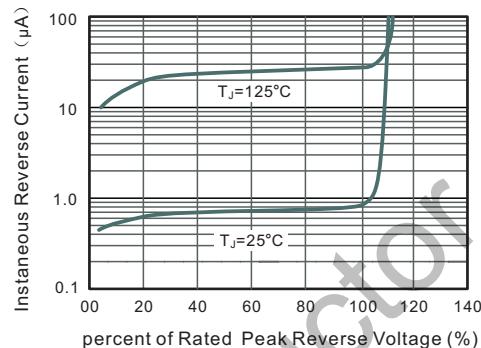
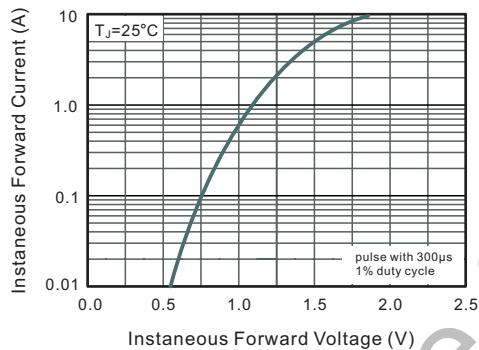
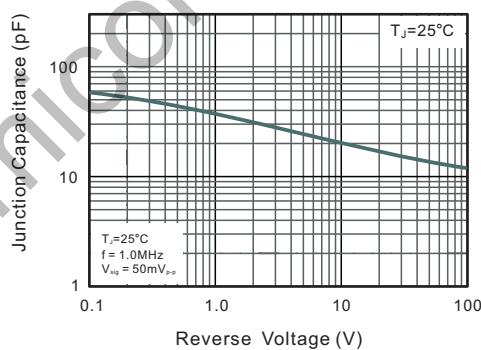
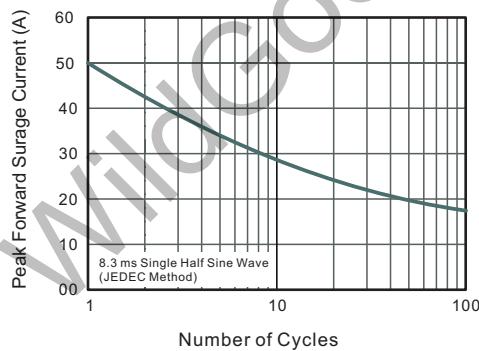
Absolute Maximum Ratings and Characteristics

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	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 $T_c = 125^\circ\text{C}$	$I_{F(AV)}$	2						A					
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	50						A					
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						μA					
Typical Junction Capacitance at $V_R = 4\text{V}$, $f = 1\text{MHz}$	C_J	30						pF					
Maximum Reverse Recovery Time ⁽¹⁾	t_{rr}	150		250		500		ns					
Typical Thermal Resistance ⁽²⁾	$R_{\theta JA}$ $R_{\theta JC}$	75 22						°C/W					
Operating and Storage Temperature Range	T_J, T_{stg}	-55 ~ +150						°C					

(1) Measured with $I_F = 0.5\text{ A}$, $I_R = 1\text{ A}$, $I_{rr} = 0.25\text{ A}$.

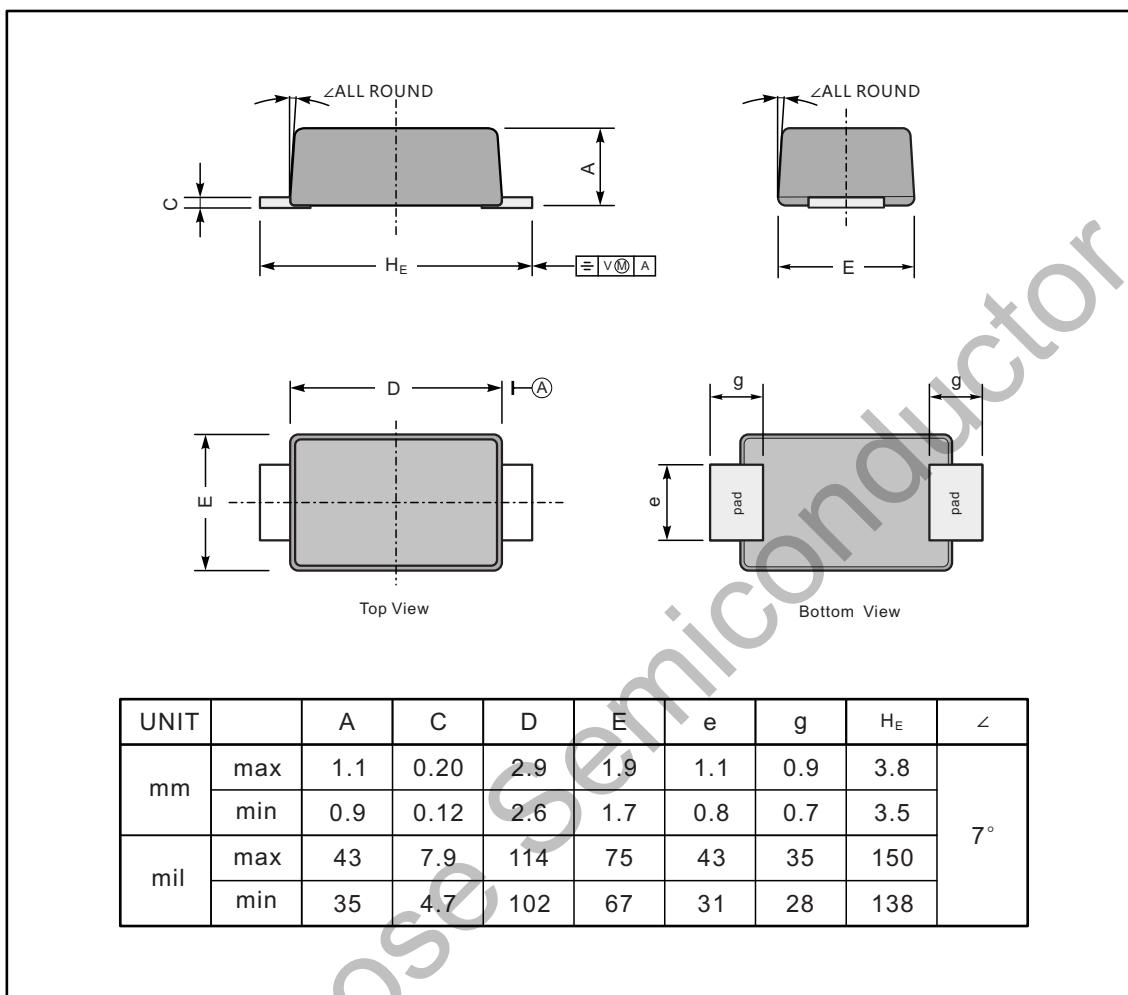
(2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

Fig.1 Forward Current Derating Curve**Fig.2 Typical Reverse Characteristics****Fig.3 Typical Instantaneous Forward Characteristics****Fig.4 Typical Junction Capacitance****Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**

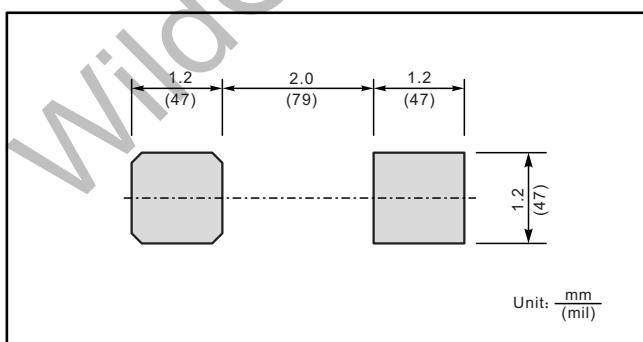
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



The recommended mounting pad size



Marking

Type number	Marking code
RS2AW	2F2
RS2BW	
RS2DW	
RS2GW	
RS2JW	2F5
RS2KW	2F7
RS2MW	