

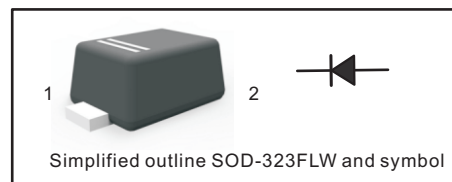


FEATURES

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

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings at 25 °C

Parameter	Symbols	1N4148WF	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS voltage	V_{RMS}	75	V
Continuous Forward Current	I_F	150	mA
Non-repetitive Peak Forward Surge Current	I_{FSM}	0.5 1 4	A
		at 1s	
		at 1ms	
		at 1us	
Total Power Dissipation	P_{tot}	300	mW
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	°C

Characteristics at $T_a = 25 °C$

Parameter	Symbols	1N4148WF	Units
Reverse Breakdown Voltage at $I_R = 1 \mu A$	$V_{(BR)R}$	75	V
Maximum Forward Voltage	V_F	0.715 0.855 1.00 1.25	V
		at 1 mA	
		at 10 mA	
		at 50 mA	
		at 150 mA	
Peak Reverse Current	I_R	0.025 1 30 50	μA
		at $V_R = 20V$ $T_j = 25^\circ C$	
		at $V_R = 75V$ $T_j = 25^\circ C$	
		at $V_R = 25V$ $T_j = 150^\circ C$	
		at $V_R = 75V$ $T_j = 150^\circ C$	
Typical Junction Capacitance	C_j	2	pF
		f=1MHz, $V_R = 0V$	
Maximum Reverse Recovery Time ⁽¹⁾	t_{rr}	4	ns

(1) Measured with $I_F = I_R = 10mA, I_n = 0.1 * I_R, R_L = 100 \Omega$



Fig.1 Power Derating Curve

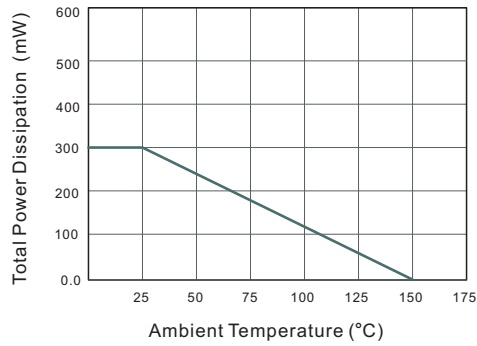


Fig.2 Typical Reverse Characteristics

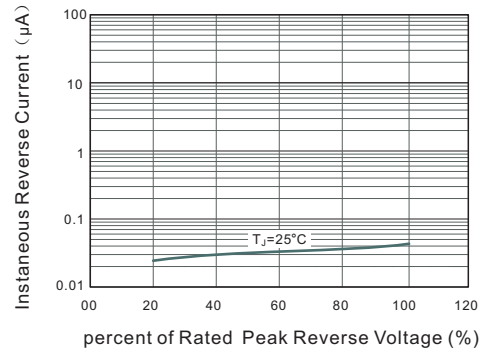


Fig.3 Typical Instaneous Forward Characteristics

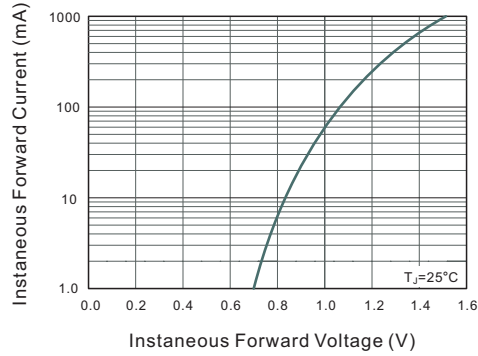
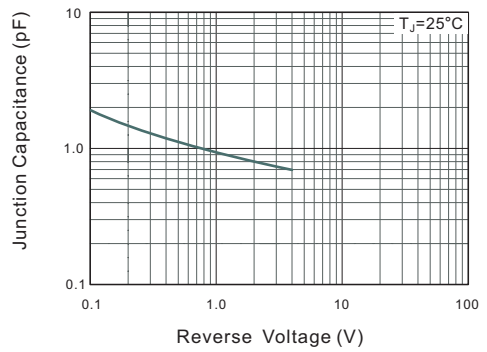


Fig.4 Typical Junction Capacitance

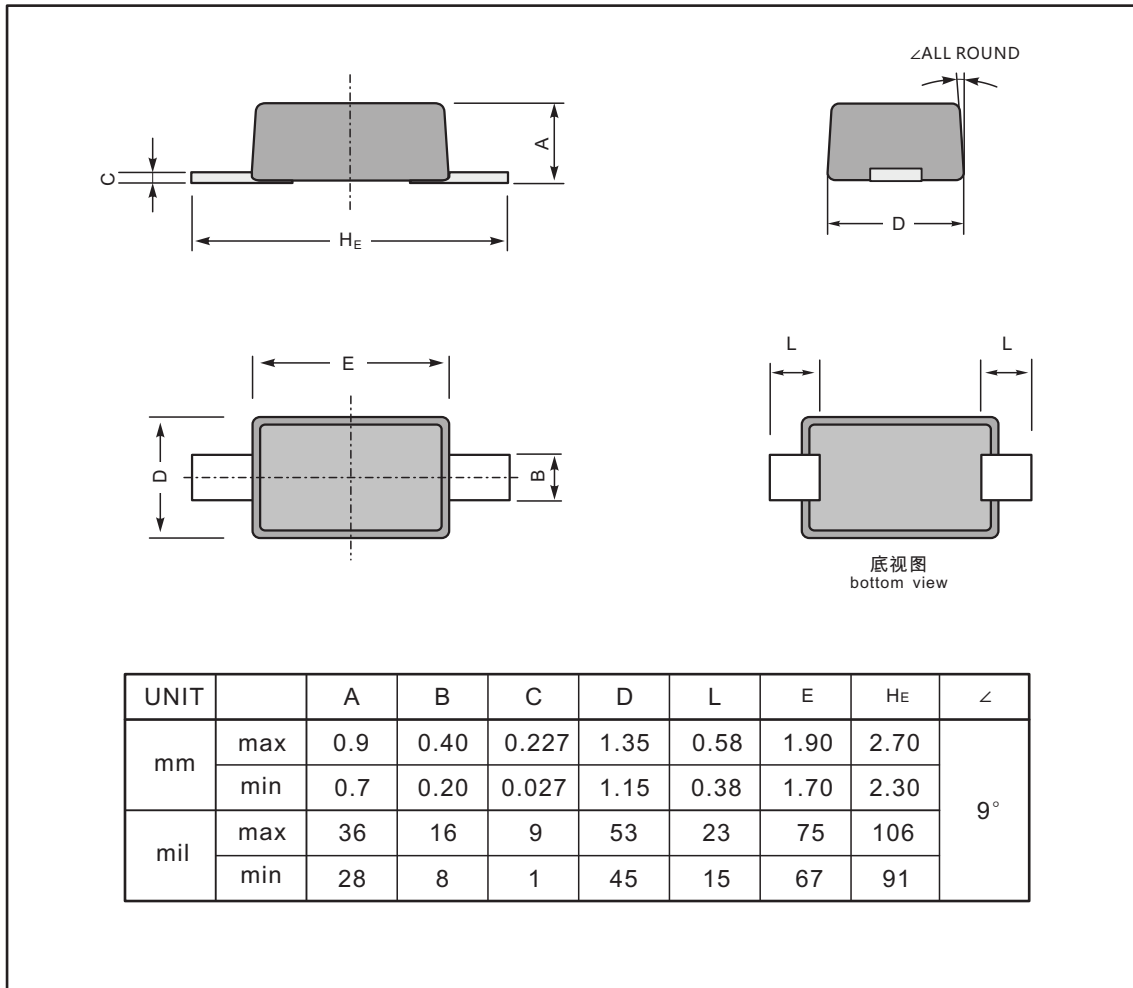




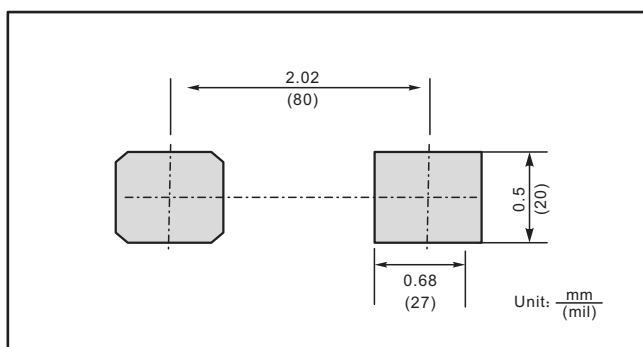
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323FLW



The recommended mounting pad size



Marking

Type number	Marking code
1N4148WF	T4

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