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

MECHANICAL DATA

■Case: SOD-323W

•Terminals: Solderable per MIL-STD-750, Method 2026

-Approx. Weight: 5.48mg / 0.00019oz

PINNING

PIN	DESCRIPTION	
1	Cathode	
2	Anode	



Absolute Maximum Ratings at 25°C

Parameter	Symbols	1N4148JGB	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS voltage	V _{RMS}	75	V
Average Rectified Forward Current	I _{F(AV)}	150	mA
Non-reptitive Peak Forward Surge Current at 1s at 1ms at 1us	I _{FSM}	0.5 1 4	А
Total Power Dissipation	P _{tot}	400	mW
Typical Thermal Resistance (1)	R _{θJA} R _{θJC}	340 120	°C/W
Operating and Storage Temperature Range	T,j T stg	-55 ~ + 150	°C

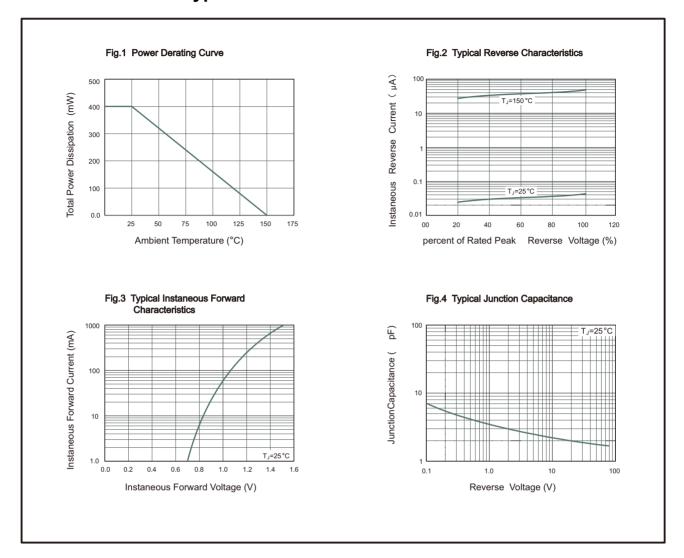
⁽¹⁾ P.C.B. mounted with 5*5mm copper pad areas.

Characteristics at T_a = 25 °C

Parameter		Symbols	1N4148JGB	Units
Reverse Breakdown Voltage at I _R =1μA		$V_{(BR)R}$	100	V
Maximum Forward Voltage	at 1 m A at 10 m A at 50 m A at 150 m A	V _F	0.715 0.855 1.00 1.25	V
Peak Reverse Current	at V_R =20V T _j =25 °C at V_R =75V T _j =25 °C at V_R =25V T _j =150 °C at V_R =75V T _j =150 °C	I _R	0.025 1 30 50	μΑ
Typical Junction Capacitance f=1MHz,VR=0V		C _j	5	pF
Typical Reverse Recovery Time (2)		t _{rr}	4	ns

⁽²⁾ Measured with IF=IR=10mA,Irr=0.1xIR,RL=100 Ω

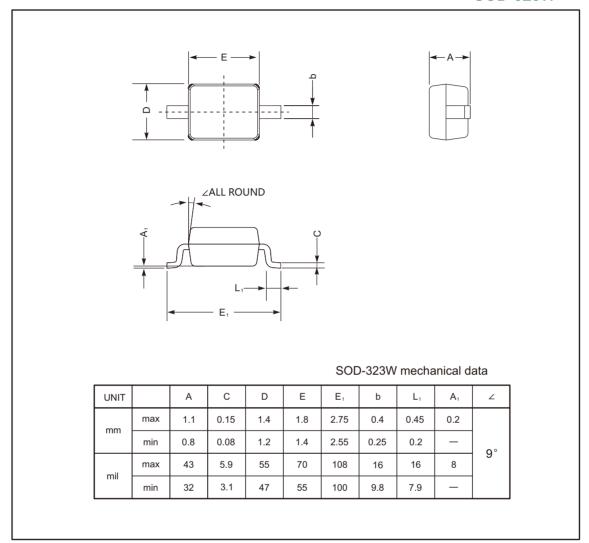
Typical Performance Characteristics



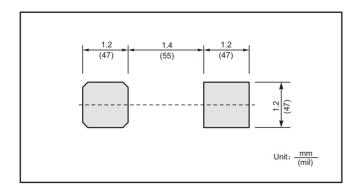
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323W



The recommended mounting pad size



Marking

Type number	Marking code	
1N4148JGB	4J	

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