

■ Switching Diodes

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-323FL
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026
- ◆ Approx. Weight: 4.5mg /0.00016oz

Pinning

1.Cathode	2.Anode
	
SOD-323FL	

Marking Code

1N4148WSL	T4
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Absolute Maximum Ratings at 25°C

Parameter	Symbols	1N4148WSL	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	at 1s	0.5	A
	at 1ms	1	
	at 1us	4	
Total Power Dissipation	P_{tot}	400	mA
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	°C

Characteristics at Ta = 25 °C

Parameter	Symbols	1N4148WSL	Units
Reverse Breakdown Voltage at $I_R=1\mu A$	$V_{(BR)R}$	75	V
Maximum Forward Voltage	at 1 mA	0.715	V
	at 10 mA	0.855	
	at 50 mA	1.00	
	at 150 mA	1.25	
Peak Reverse Current	at $V_R=20V$ $T_j=25^\circ C$	0.025	uA
	at $V_R=75V$ $T_j=25^\circ C$	1	
	at $V_R=25V$ $T_j=150^\circ C$	30	
	at $V_R=75V$ $T_j=150^\circ C$	50	
Typical Junction Capacitance $f=1MHz, V_R=4V$	C_j	2	pF
Maximum Reverse Recovery Time	T_{rr} Typical	4	nS

Fig.1 Power Derating Curve

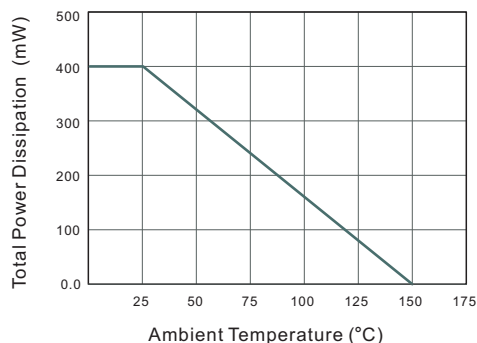


Fig.2 Typical Reverse Characteristics

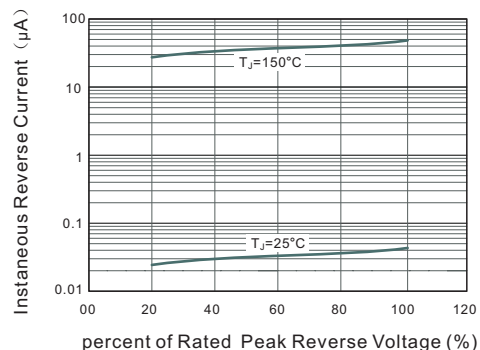


Fig.3 Typical Instaneous Forward Characteristics

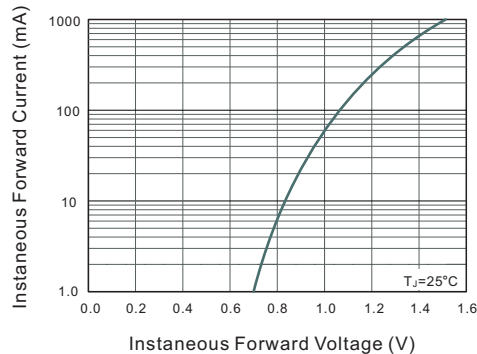
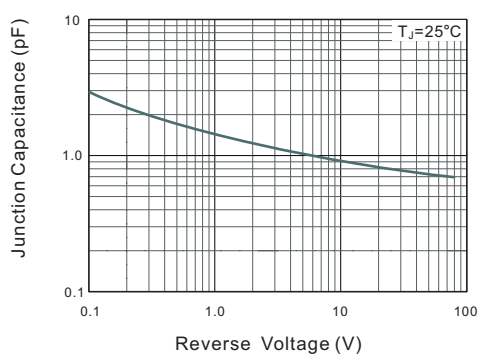


Fig.4 Typical Junction Capacitance



Ordering information

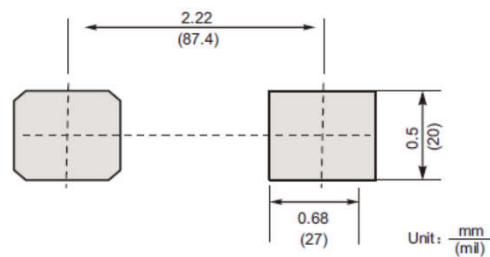
Package	Packing Description	Packing Quantity
SOD-323FL	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-323FL

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.70	0.90	28	36
B	0.20	0.40	8	16
C	0.027	0.227	1	9
D	1.15	1.35	45	53
L	0.38	0.58	15	23
E	1.70	1.90	67	75
HE	2.30	2.70	91	67
∠	9°			

The recommended mounting pad size



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