



### FEATURES

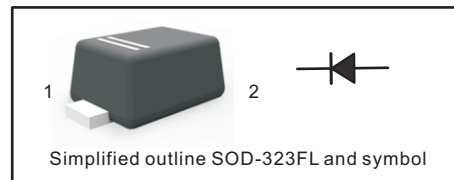
- For surface mounted applications
- Glass Passivated Chip Junction
- Fast reverse recovery time
- Ideal for automated placement
- Lead free in comply with EU RoHS 2011/65/EU directives

### MECHANICAL DATA

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

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Absolute Maximum Ratings at 25 °C

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

### Characteristics at $T_a = 25\text{ °C}$

Parameter	Symbols	T-1N4148WSL	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	$\mu A$
		at $V_R=20V$ $T_j=25\text{ °C}$	
		at $V_R=75V$ $T_j=25\text{ °C}$	
		at $V_R=25V$ $T_j=150\text{ °C}$	
		at $V_R=75V$ $T_j=150\text{ °C}$	
Typical Junction Capacitance	$C_j$	2	pF
		f=1MHz, $V_R=0V$	
Maximum Reverse Recovery Time <sup>(1)</sup>	$t_{rr}$	4	ns

(1) Measured with  $I_F=I_R=10mA, I_{rr}=0.1 \times I_R, R_L=100\Omega$



Fig.1 Power Derating Curve

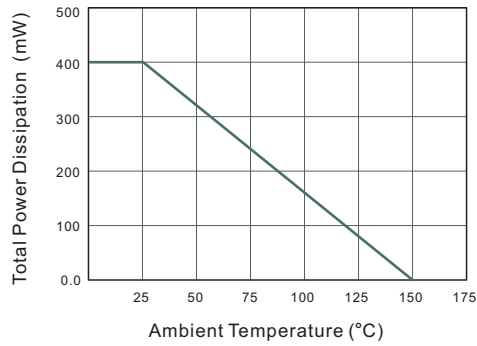


Fig.2 Typical Reverse Characteristics

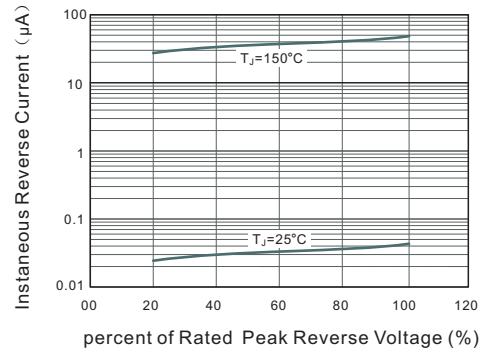


Fig.3 Typical Instaneous Forward Characteristics

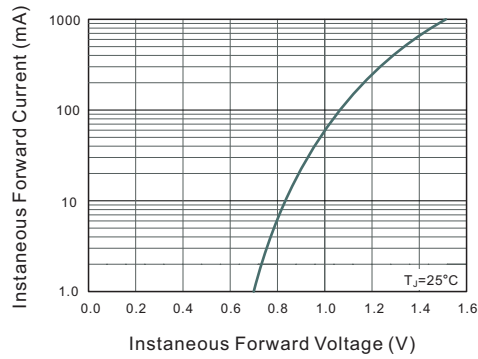
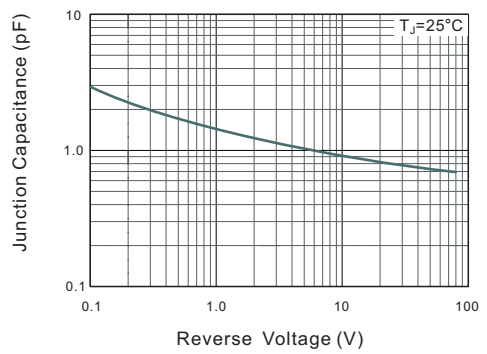


Fig.4 Typical Junction Capacitance

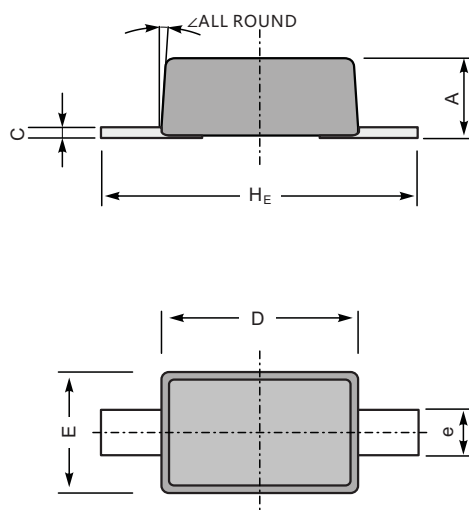




**PACKAGE OUTLINE**

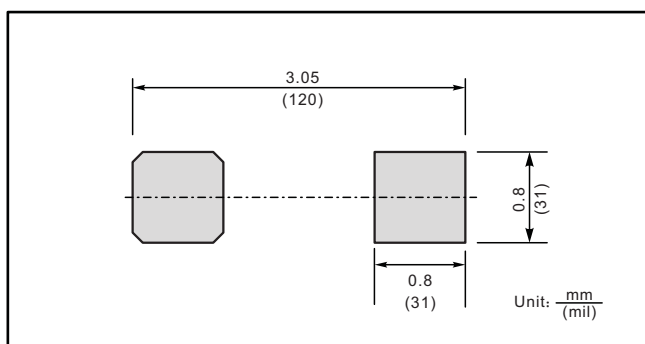
Plastic surface mounted package; 2 leads

SOD-323FL



UNIT		A	C	D	E	e	H <sub>E</sub>	∠
mm	max	1.0	0.25	1.8	1.35	0.4	2.7	8°
	min	0.8	0.05	1.6	1.15	0.25	2.3	
mil	max	39	9.8	71	53	18	106	
	min	31	2.0	63	45	10	91	

**The recommended mounting pad size**



**Marking**

Type number	Marking code
T-1N4148WSL	T4