

■ 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-123

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

♦Approx. Weight: 16mg / 0.00056oz

Absolute Maximum Ratings at 25 °C

- I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			
1.Cathode	2.Anode		
1	² — <mark>★</mark> — SOD-123		

Pinning

Marking Code	
1N4148W	T4

Parameter	Symbols	1N4148W	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	100	V
Maximum RMS voltage	V _{RMS}	75	V
Continuous Forward Current	I _F	300	mA
Non-reptitive Peak Forward Surge Current at 1ms	Ifsm	4	А
Total Power Dissipation	P _{tot}	400	mW
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150	°C

Characteristics at T_a = 25 °C

Paran	neter	Symbols	1N4148W	Units
Reverse BreakdownVoltage at IR=1µA		V _{(BR)R}	75	
Maximum Forward Voltage	at 1 mA		0.715	
	at 10 mA] , [0.855	
	at 50 mA	V _F	1.00	v
	at 150 mA		1.25	
	at 300 mA		1.50	
Peak Reverse Current	at V _R =20V T _j =25°C		0.025	
	at V _R =75V T _j =25°C	1 . 🗀	1	
	at V _R =25V T _j =150°C	l _R	30	—— uA
	at V _R =75V T _j =150°C		50	
Typical Junction Capacitance	e f=1MHz,VR=4V	C _i	5	pF
Maximum Reverse Recovery	Time	T _{rr} Typical	4	nS

⁽¹⁾ Measured with IF = 0.5 A, IR = 1 A, Irr = 0.25 A



Fig.1 Power Derating Curve

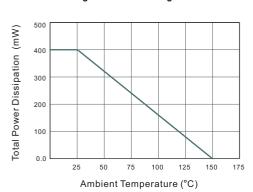


Fig.2 Typical Reverse Characteristics

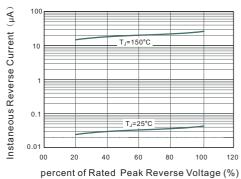


Fig.3 Typical Instaneous Forward Characteristics

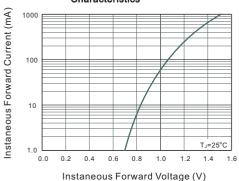
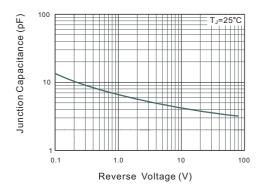


Fig.4 Typical Junction Capacitance



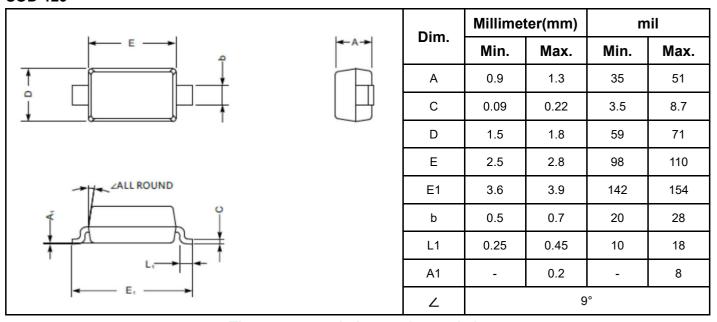


Ordering information

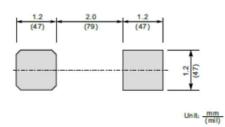
Package	Packing Description	Packing Quantity
SOD-123	Tape/Reel,7"reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-123



The recommended mounting pad size





Disclaimer

The information presented in this document is for reference only. GuangDong Youfeng Microelectronics Co.,Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise. The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices),YFW or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale. This publication supersedes & replaces all information previously supplied. For additional information, please visit our website https://www.yfwdiode.com, or consult YFW sales office for further assistance.

4 / 4