

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

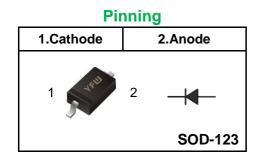
Absolute Maximum Ratings at 25 °C

Parameter	Symbols	1N4448W	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	100	v
Maximum RMS voltage	VRMS	75	v
Continuous Forward Current	I _F	300	mA
Non-reptitive Peak Forward Surge Current at 1ms	Ігѕм	4	А
Total Power Dissipation	Ptot	357	mW
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150	°C

Characteristics at Ta = 25 °C

Paran	neter	Symbols	1N4448W	Units
Reverse BreakdownVoltage	at IR=1µA	V _{(BR)R}	75	v
 Maximum Forward Voltage 	at 1 mA		0.715	
	at 10 mA	1 , [0.855	
	at 100 mA	VF	1.00	v
	at 150 mA	1	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.	2.5	
	at V _R =25V T _j =150°C		30	uA uA
	at V _R =75V T _j =150°C		50	
Typical Junction Capacitance	e f=1MHz,VR=4V	Cj	4	pF
Maximum Reverse Recovery	[,] Time	T _{rr} Typical	4	nS

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

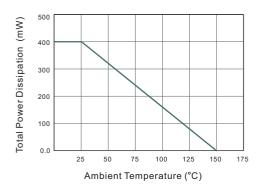


Marking Code		
1N4448W	T5	





Fig.1 Power Derating Curve



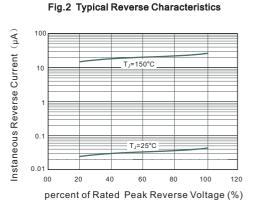
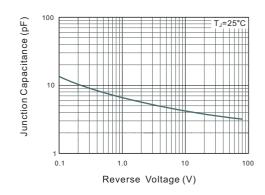
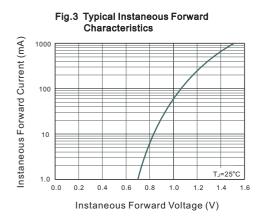


Fig.4 Typical Junction Capacitance





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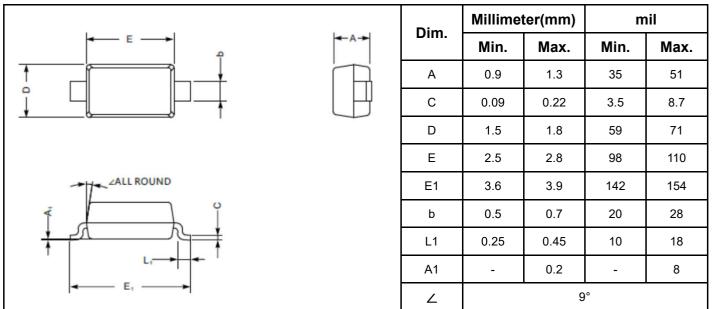


Ordering information

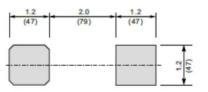
Package	Packing Description	Packing Quantity
SOD-123	Tape/Reel,7"reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-123



The recommended mounting pad size



Unit: mm (mil)





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