1N4148W/1N4448W/1N914BW



1N4148W/1N4448W/1N914BW Fast Switching Diode

General description

Surface Mount Silicon Switching Diode

FEATURES

- Fast Switching Device (TRR <4.0 nS)
- General Purpose Diodes
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode
- Weight: approx. 0.01g
- AEC-Q101 Qualified

Absolute Maximum Ratings TA = 25°C unless otherwise noted

Symbol	Parameter	Value	Units	
P _D	Power Dissipation	400	mW	
Тѕтс	Storage Temperature Range	-65 to +150	°C	
TJ	Operating Junction Temperature	+150	°C	
VRSM	Non-Repetitive Peak Reverse Voltage	100	V	
VRRM	Repetitive Peak Reverse Voltage	75	V	
I FRM	IFRM Repetitive Peak Forward Current		mA	
lo	Continuous Forward Current	150	mA	
Ігѕм	Peak Forward Surge Current (Pulse Width=1us)		Α	

Green Product



SOD-123 Flat Lead



DEVICE MARKING CODE:

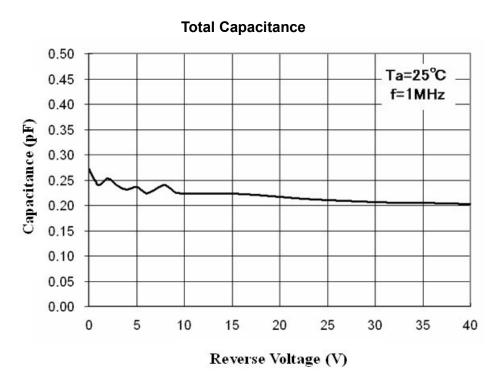
Device Type	Device Marking		
1N4148W	D1		
1N4448W	D2		
1N914BW	D3		

. **Electrical Characteristics** $T_A = 25$ °C unless otherwise noted

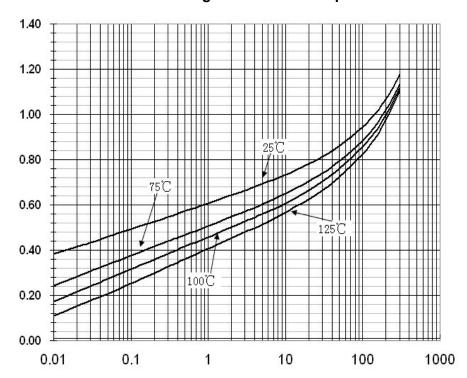
Symbol	Parameter		Test Condition	Limits		11	
				Min	Max	Unit	
Ву	Breakdown Voltage		I _R =100μA	100		Volts	
			I _R =5µA	75			
I_R	Reverse Leakage Current		V _R =20V		25	nA	
			V _R =75V		5	μΑ	
V _F	Forward Voltage	1N4448WS, 1N914BWS	I _F =5mA	0.62	0.72		
		1N4148WS	I _F =10mA		1.0	Volts	
		1N4448WS, 1N914BWS	I _F =100mA		1.0		
T _{RR}	Reverse Recovery Time		I _F =10mA				
			I _R =60mA		_	0	
			R _L =100Ω		4	nS	
			I _{RR} =1mA				
С	Capacitance		$V_R=0V$, $f=1M_{HZ}$		4	pF	



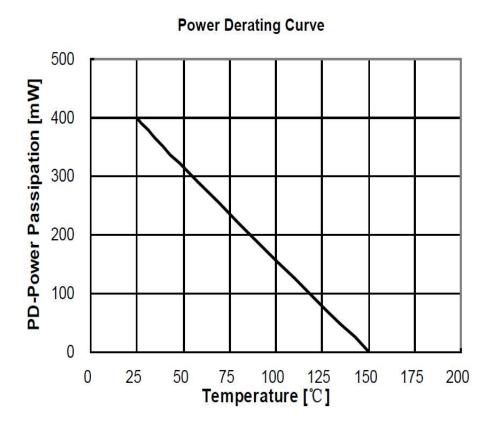
Typical Performance Characteristics



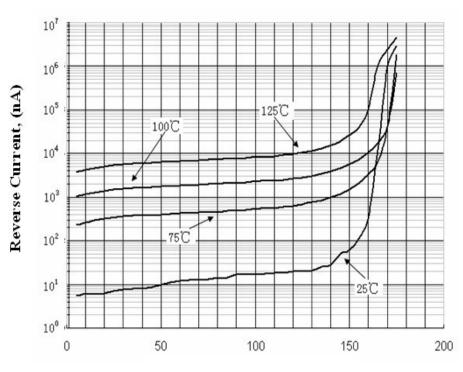
Forward Voltage vs Ambient Temperature







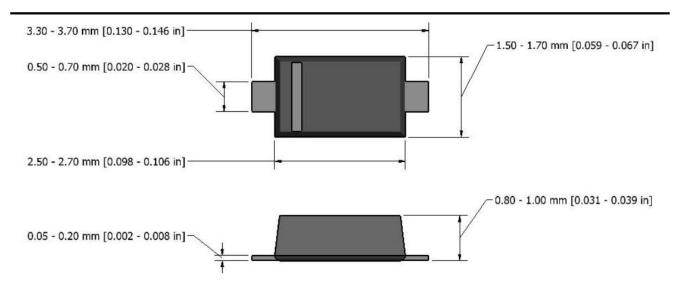
Reverse Current vs Reverse Voltage Reverse



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Flat Lead SOD-123 Package Outline



Note: Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

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