

SEMICONDUCTOR

400mW SOD-123 SURFACE MOUNT Small Outline Flat Lead Plastic Package General Purpose Application Fast Switching Diode

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units	
PD	Power Dissipation	400	mW	
T _{STG}	Storage Temperature Range	-65 to +150	°C	
TJ	Operating Junction Temperature	+150	°C	
V _{RSM}	Non-Repetitive Peak Reverse Voltage	100	V	
V _{RRM}	Repetitive Peak Reverse Voltage	75	V	
I _{FRM}	Repetitive Peak Forward Current	300	mA	
Ιo	Continuous Forward Current	150	mA	
I _{FSM}	Peak Forward Surge Current (Pulse Width=1us)	2	А	

These ratings are limiting values above which the serviceability of the diode may be impaired.

Specification Features:

- Fast Switching Device (T_{RR} <4.0 nS)</p>
- General Purpose Diodes
- Flat Lead SOD-123 Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

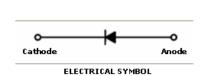
Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter		Test Condition	Limits		11
				Min	Max	Unit
Bv	Breakdown Voltage		I _R =100μA 100			
		I _R =5µA	75		Volts	
I _R	Reverse Leakage Current		V _R =20V		25	nA
			V _R =75V		5	μA
VF	Forward Voltage	1N4448W, 1N914BW	I _F =5mA	0.62	0.72	
		1N4148W	I _F =10mA		1.0	Volts
		1N4448W, 1N914BW	I _F =100mA		1.0	
T _{RR}	Reverse Recovery Time		I _F =10mA			
			I _R =60mA		4	~ 0
		R _L =100Ω	4	nS		
			I _{RR} =1mA			
С	Capacitance		$V_R=0V, f=1M_{HZ}$		4	pF



Green Product



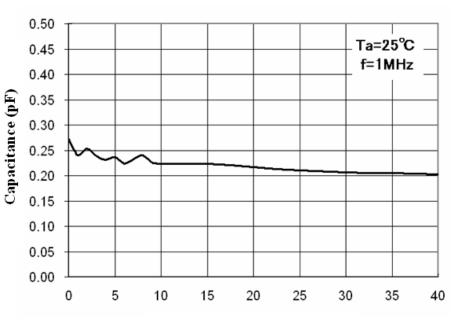


DEVICE MARKING CODE:

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

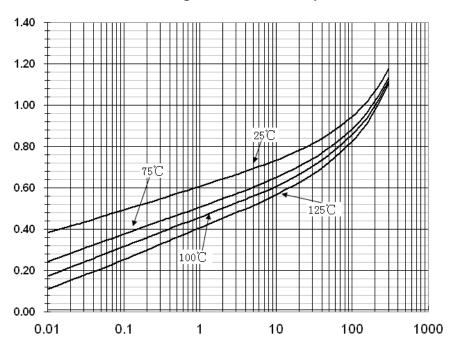


Typical Performance Characteristics



Total Capacitance

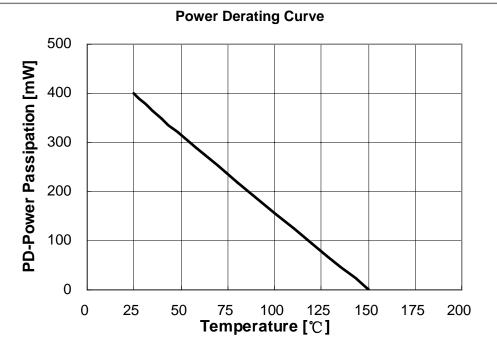
Reverse Voltage (V)



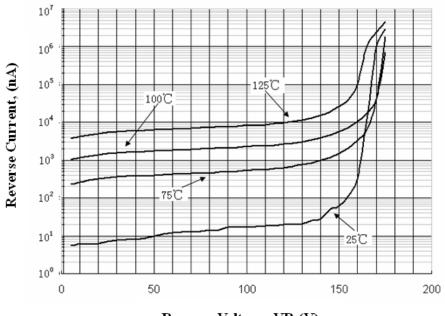
Forward Voltage vs Ambient Temperature



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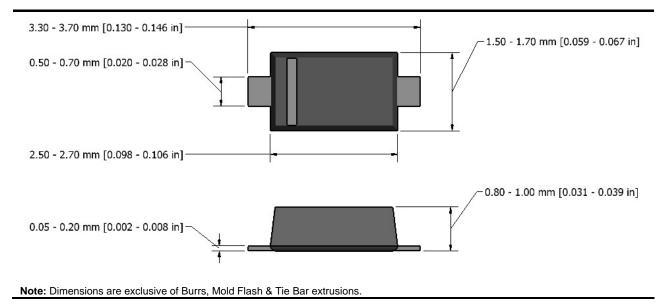


Reverse Voltage, VR (V)



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Flat Lead SOD-123 Package Outline





NOTICE

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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), Tak Cheong Semiconductor Co., Ltd., or anyone on its behalf, assumes no responsibility or liability for any damagers resulting from such improper use of sale.

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