

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

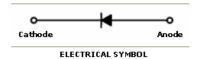
Symbol	Parameter	Value	Units
P _D	Power Dissipation	400	mW
T _{STG}	TG Storage Temperature Range -65 to		°C
TJ	Operating Junction Temperature	+150	°C
V _{RSM}	Non-Repetitive Peak Reverse Voltage	100	V
V _{RRM}	Repetitive Peak Reverse Voltage	75	V
I _{FRM}	Repetitive Peak Forward Current	300	mA
Io	Continuous 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.

Green Product



SOD-123 Flat Lead



Specification Features:

- Fast Switching Device (T_{RR} <4.0 nS)
- 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

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		Unit
				Min	Max	Oill
B _V	Breakdown Voltage		I _R =100μA	100		Volts
			I _R =5µA	75		VOIIS
I _R	Reverse Leakage Current		V _R =20V		25	nA
			V _R =75V		5	μΑ
V _F	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	nS
			R _L =100Ω		4	
			I _{RR} =1mA			
С	Capacitance		V _R =0V, f=1M _{HZ}		4	pF

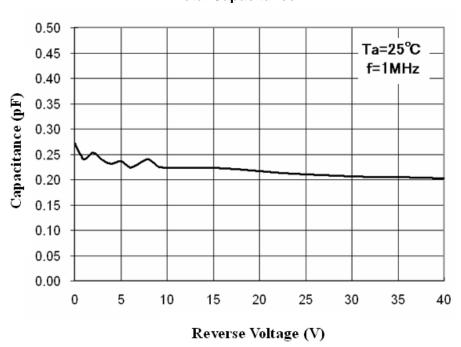
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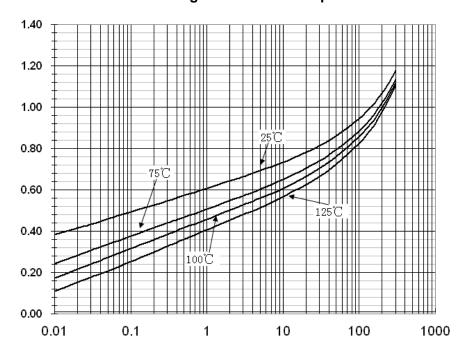


Typical Performance Characteristics

Total Capacitance



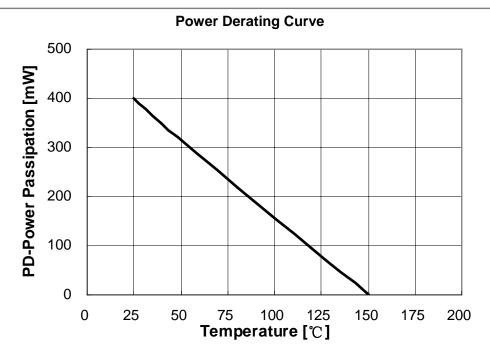
Forward Voltage vs Ambient Temperature



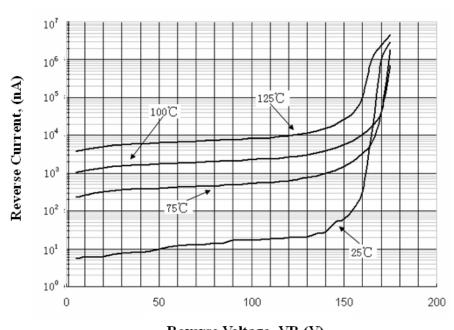
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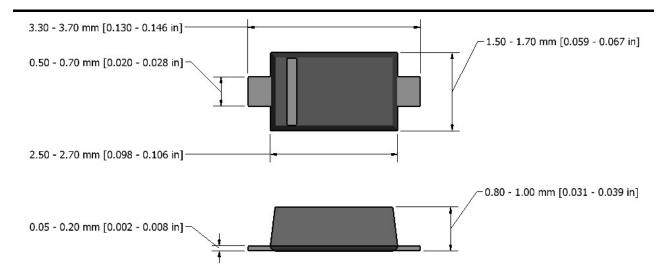


Reverse Current vs Reverse Voltage





Flat Lead SOD-123 Package Outline



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

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NOTICE

The information presented in this document is for reference only. Tak Cheong reserves the right to make changes without notice for the specification of the products displayed herein.

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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Number: DB-100 April 14, 2008 / A