

BAS116WS

SURFACE MOUNT, LOW LEAKAGE SWITCHING DIODE

Voltage Range 100 Volts Power 200mWatts

Features

- * Suface mount package ideally suited for automatic insertion.
- * Very low leakage current. 2pA typical at VR=75V.
- * Low capacitance. 2pF max at VR=0V, f=1MHz
- * Both normal and Pb free product are available :

Normal: 80~95% Sn, 5~20% Pb Pb free: 98.5% Sn above

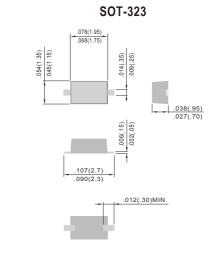
Mechanical Data

Case: SOD-323 plastic

Terminals: Solderable per MIL-STD-202, Method 208

Approx weight: 0.0045 gram

Marking: P1



Dimensions in millimeters

Absolute Ratings

PARAMETER	Symbol	Value	Units
Reverse Voltage	Vr	75	V
Peak Reverse Voltage	VRM	100	V
Continuous Forward Current	l F	0.2	А
Non-repetitive Peak Forward Surge Current at t=1.0us	I FSM	2.0	А

Thermal Characteristics

PARAMETER	Symbol	Value	Units	
Power Dissipation (Note 1)	Ртот	200	mW	
Thermal Resistance, Junction to Ambient (Note 1)	R <i>⊕</i> JA	625	°C/W	
Junction Temperature	Тл	-55 to 150	°C	
Storage Temperature	Тѕтс	-55 to 150	°C	

NOTES:

1.FR-5 Board=1.0 x 0.75 x 0.062 in.

Http://www.upm.com	ı.tw
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E-mail:upm.tw@msa.hinet.net



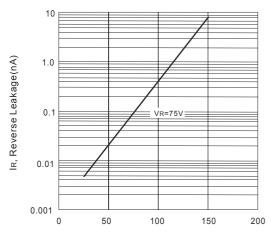
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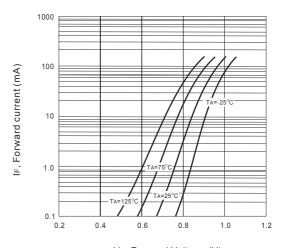
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Electrical Characteristics (TJ=25°C, unless otherwise noted)

PARAMETER	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Breakdow\ Voltage	(BR)	IR=100 uA	75			V
Reverse Current	IR	V _R =75 V V _R =75 V,T _J =150 °C		0.002	5 80	nA
Forward Voltage	VF	IF=1mA IF=10mA IF=50mA IF=150mA			0.9 1.0 1.1 1.25	V
Total Capacitance	Ст	V _R =0 V, f=1MHz			2.0	pF
Reverse Recovery Time	Trr	I _F =I _R =10mA, R _L =100□			3.0	us



Tj, Junction Temperature (Deg C)
Fig.1 Reverse Leakage vs. Junction Temperature



VF, Forward Voltage (V)
Fig.2 Forward Current vs. Forward Voltage

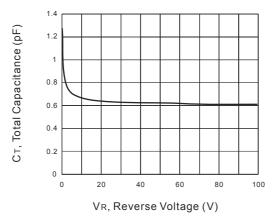


Fig.3 Total capacitance vs. Reverse Voltage

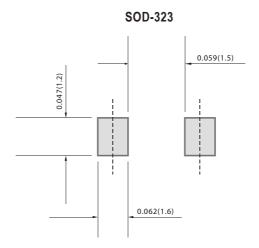


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Mounting Pad Layout



Dimensions in millimeters

Order Information

Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel

Legal Statement

* Important Notice

This information is intended to unambiguously characterize the product in order to facilitate the customer's evaluation of the device in the application. The information will help the customer's technical experts determine that the device is compatible and interchangeable with similar devices made by other vendors. The information in this data sheet is believed to be reliable and accurate. The specifications and information herein are subject to change without notice. New products and improvements in products and product characterization are constantly in process. Therefore, the factory should be consulted for the most recent information and for any special characteristics not described or specified.

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