



## **DATA SHEET**

# **BAS40WS**

## **SURFACE MOUNT SCHOTTKY DIODES**

VOLTAGE 40 Volts CURRENT 0.2 Ampers

#### **FEATURES**

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
  Electrical identical standard JEDEC
- High conductor
- Both normal and Pb free product are available :

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

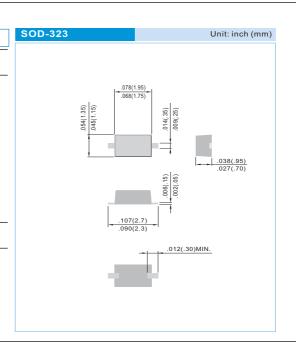
#### **MECHANICAL DATA**

• Case: SOD-323, Plastic

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

• Approx. Weight: 0.008 gram

• Marking: S40



#### **ABSOLUTE RATINGS**

PARAM ETER	Sym bol	BAS40W S	Units
Reverse Voltage	VR	40	V
Peak Reverse Volage	Vrrm	40	V
Average Rectified CumentatTem p=25°C	Io	0.2	А
Non-repetitive Peak Forward Surge Cumentatt=10 s	Fsм	0.0	А

#### THERMAL CHARACTERISTICS

PARAM ETER	Sym bol	BAS40WS	Units
PowerD issipation	Ртот	225	m W
Therm alResistance , Junction to Ambient	R OJA	556	°C <i>M</i>
Junction Tem penature	Тл	150	°C
Storage Tem perature at Tem p=25°C	TETG	-55 to 150	°C

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## **ELECTRICAL CHARACTERISTICS**

PARAMETER	Sym bol	TestC ond ition	M IN .	TYP.	MAX.	Units
Reverse Breakdown Voltage	V (BR)	E=10 uA	40	-	_	V
Reverse Cument	Ir	V <sub>R</sub> =30 V V <sub>R</sub> =40 V		-	1.0 10	uA
Forward Voltage	VF	F=1.0m A F=10m A F=40m A	_	-	0.38 0.50 1.00	V
Tota 1C apacitance	Ст	VR=0V, f=1.0M Hz	_	-	5 D	pF

#### **ELECTRICAL CHARACTERISTICS CURVE**

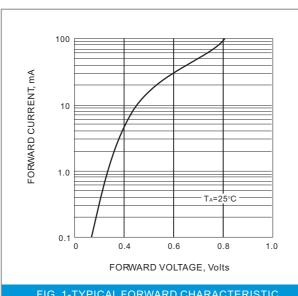


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

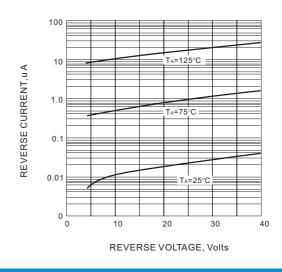
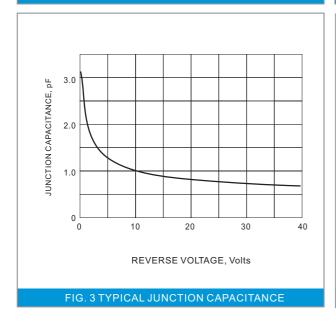
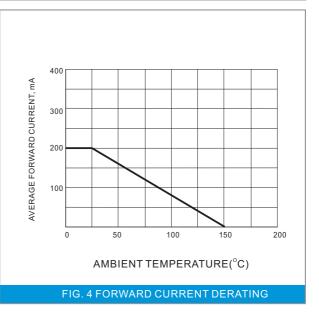


FIG. 2-TYPICAL REVERSE CHARACTERISTICS



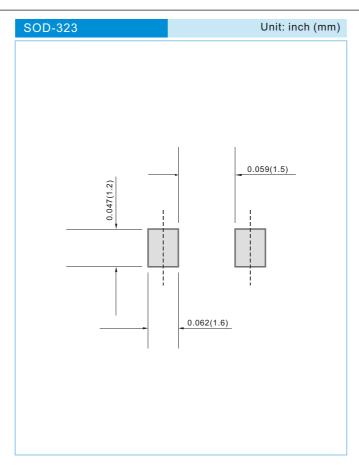


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#### **MOUNTING PAD LAYOUT**



#### ORDER INFORMATION

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 5.0K 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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