

# BAS40W/AW/CW/SW

#### SURFACE MOUNT SCHOTTKY DIODES

# Voltage Range 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 :

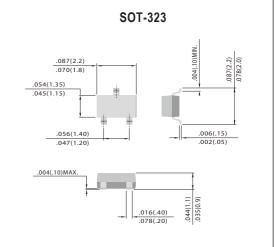
Normal: 80~95% Sn, 5~20% Pb Pb free: 98.5% Sn above

#### **Mechanical Data**

Case: SOT-323, Plastic

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

Approx. Weight: 0.0052 gram Marking: S40,S42,S43,S44



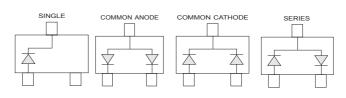
#### **Dimensions in millimeters**

## **Absolute Ratings**

PARAMETER	Symbol	BAS40WS	Units
Reverse Voltage	VR	40	V
Peak Reverse Voltage	Vrrm	40	V
Average Rectified Current at Temp=25°C	lo	0.2	А
Non-repetitive Peak Forward Surge Current at t=1.0 s	IFSM	0.6	А

#### **Thermal Characteristics**

PARAMETER	Symbol	BAS40WS				Unit s
Power Dissipation	Р тот	225				mW
Thermal Resistance , Junction to Ambient	R <i>⊕</i> JA	556				°C/W
Junction Temperature	TJ	150				°C
Storage Temperature at Temp=25°C	TIsтg	-55 to 150				°C
Circuit Figure		SINGLE	COMMON ANODE	COMMON CATHODE	SERIES	



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### **Electrical Characteristics**

PARAMETER	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Breakdown Voltage	V <sub>(BR)</sub>	lR=10 uA	40	-	-	V
Reverse Current	IR	V <sub>R</sub> =30 V V <sub>R</sub> =40 V		-	1.0 10	uA
Forward Voltage	VF	IF=1.0mA IF=10mA IF=40mA		-	0.38 0.50 1.00	V
Total Capacitance	Ст	V <sub>R</sub> =0V, f=1.0MHz		-	5.0	pF

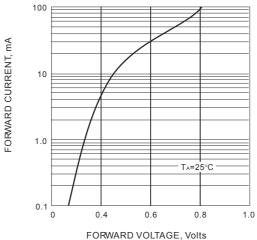


Fig.1 Typical Forward Characteristic

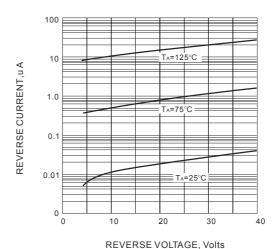


Fig.2 Typical Reverse Characteristics

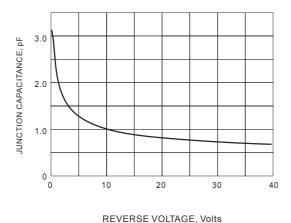
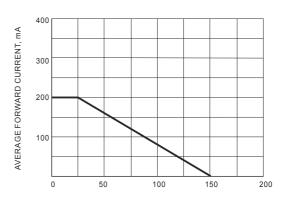


Fig.3 Typical Junction Capacitance



AMBIENT TEMPERATURE(°C)
Fig.4 Forward Current Derating

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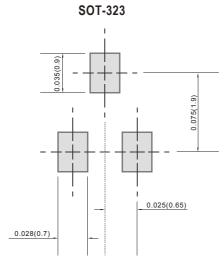


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### **Mounting Pad Layout**



Dimensions in millimeters

#### **Order Information**

Packing information

T/R - 12K per 13" plastic Reel

T/R - 3.0K 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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