BAS70W/AW/CW/SW

SURFACE MOUNT SCHOTTKY DIODES

Voltage Range 70 Volts
Current 0.2 Ampers

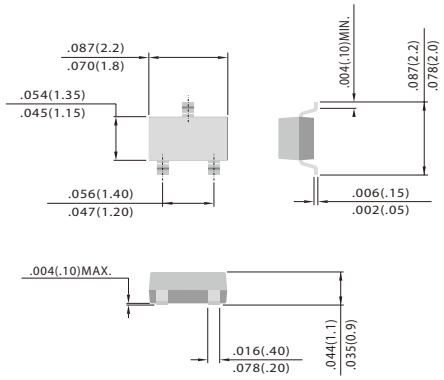
Features

* 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: A70,A72,A73,A74

SOT-323



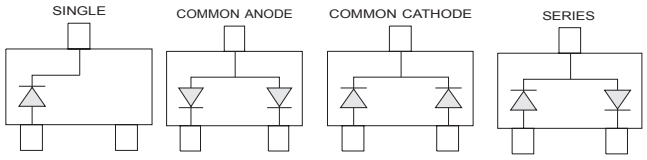
Dimensions in millimeters

Absolute Ratings

PARAMETER	Symbol	BAS40WS	Units
Reverse Voltage	V_R	70	V
Peak Reverse Voltage	V_{RRM}	70	V
Average Rectified Current at Temp=25°C	I_O	0.2	A
Non-repetitive Peak Forward Surge Current at t=1.0 s	I_{FSM}	0.6	A

Thermal Characteristics

PARAMETER	Symbol	BAS40WS				Units
Power Dissipation	P_{TOT}	225				mW
Thermal Resistance , Junction to Ambient	$R\theta_{JA}$	556				°C/W
Junction Temperature	T_J	150				°C
Storage Temperature at Temp=25°C	TI_{STG}	-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	$V_{(BR)}$	I_R=10 uA	70	–	-	V
Reverse Current	I_R	V_R=70 V V_R=50 V	--	-	1.0 10	uA
Forward Voltage	V_F	I_F=1.0mA I_F=10mA I_F=40mA	--	-	0.41 0.75 1.00	V
Maximum Junction Capacitance	C_T	V_R=0V, f=1.0MHz	--	-	2.0	pF

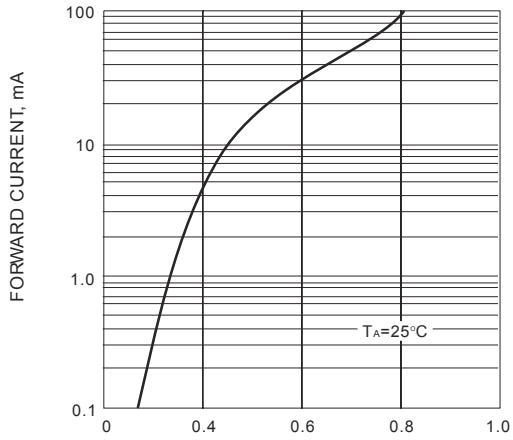

Fig.1 Typical Forward Characteristic

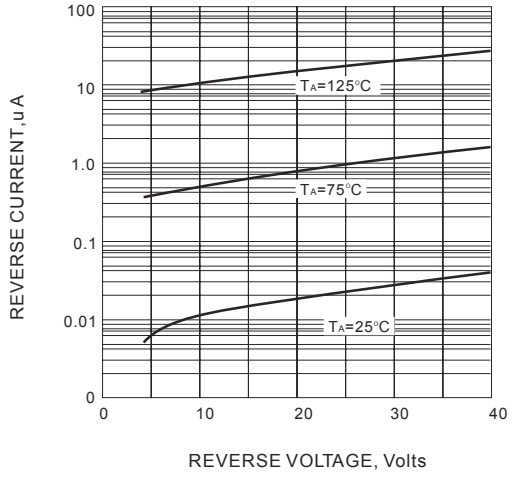

Fig.2 Typical Reverse Characteristics

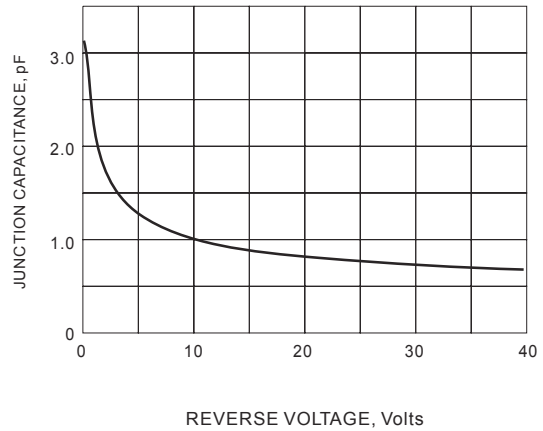

Fig.3 Typical Junction Capacitance

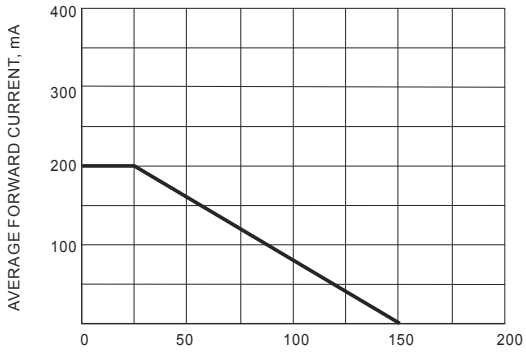

Fig.4 Forward Current Derating

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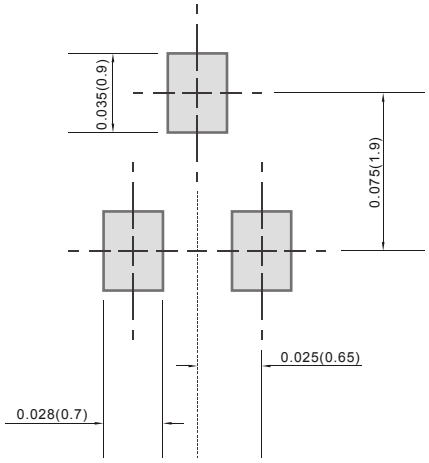
Mounting Pad Layout

SOT-323



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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