



DATA SHEET

BAS40W/AW/CW/SW

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 :

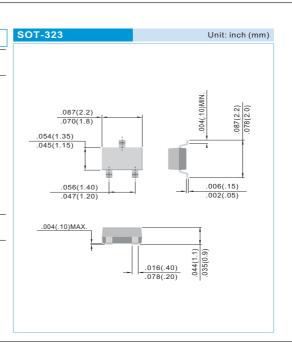
Normal: 80~95% Sn, 5~20% Pb Pb free: 98.5% Sn above

MECHANICAL DATA

Case: SOT-323, Plastic

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

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

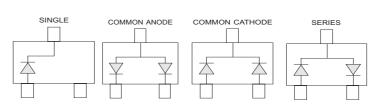


ABSOLUTE RATINGS

PARAMETER	Sym bol	BAS40W	BAS40AW	BAS40CW	BAS40SW	Units
Reverse Volage	VR	40				V
Peak Reverse Volage	Vrrm	40				V
Average Rectified CumentatTem p=25°C	Io	0.2			A	
Non-repetitive Peak Forward Surge Cumentatt=1.0 s	Fsm	0.6			A	

THERMAL CHARACTERISTICS

PARAM ETER	Symbol	BAS40W	BAS40AW	BAS40CW	BAS40SW	Units
PowerD issipation	Ртот		m W			
Therm alResistance , Junction to Am bient	R OJA	556				°C M
Junction Tem perature	Тэ		°C			
Storage Temperature at Temp=25°C	TETG	-55 to 150				°C
C incuit Figure		SINGLE	COMMON ANODE	COMMON CATHODE	SERES	



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ELECTRICAL CHARACTERISTICS

PARAMETER	Sym bol	TestC ond ition	M IN .	TYP.	MAX.	Units
Reverse Breakdown Volage	V (BR)	E=10 uA	40	_	_	V
Reverse Current	Ir	V _R =30 V V _R =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
TotalC apacitance	Ст	VR=0V, <u>f</u> =1.0M Hz	_	_	5.0	pF

ELECTRICAL CHARACTERISTICS CURVE

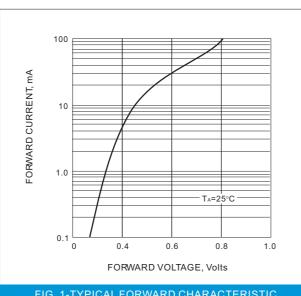


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

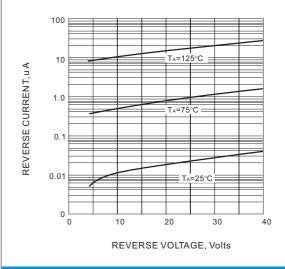
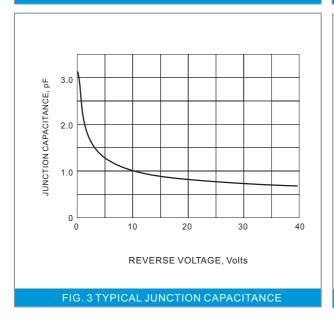
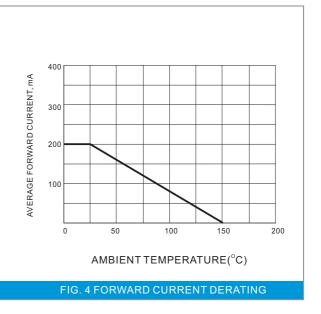


FIG. 2-TYPICAL REVERSE CHARACTERISTICS



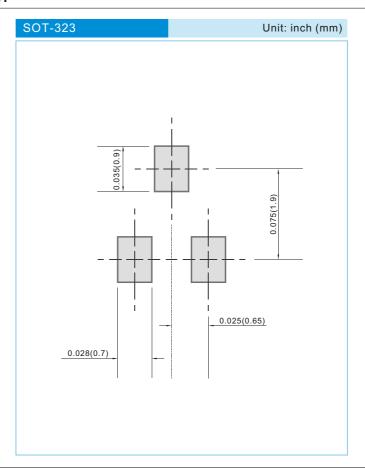


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MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 12K per 13" plastic Reel

T/R - 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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