

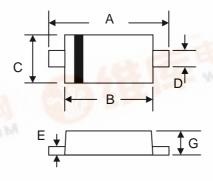
BAS40WS Rohs



SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

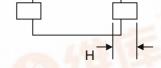
- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and **ESD Protection**
- Designed for Surface Mount Application
- Plastic Material UL Recognition Flammability Classification 94V-O



SOD-323					
Dim	Min	Max			
Α	2.30	2.70			
В	1.75	1.95			
С	1.15	1.35			
D	0.25	0.35			
Е	0.05	0.15			
G	0.70	0.95			
Н	0.30	_			
All Dimensions in mm					

Mechanical Data

- Case: SOD-323, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.004 grams (approx.)
- Marking: S40
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 3



Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	BAS40WS	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	40	SC-VON
Forward Continuous Current (Note 1)	lF	200	mA
Forward Surge Current @ t < 1.0s	IFSM	600	mA
Power Dissipation (Note 1)	Pd	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	R heta JA	625	°C/W
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +125	°C

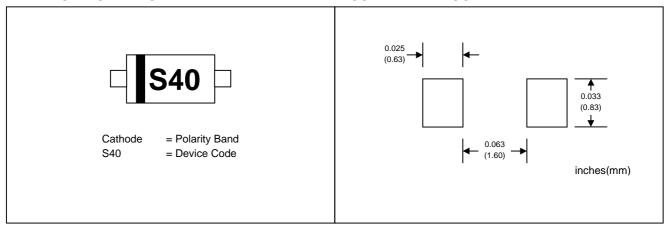
Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage	V(BR)R	40		<i>//</i> _	V	@ IR = 10μA
Forward Voltage	VF	SC.COM	_	380 500 1000	mV	@ IF = 1.0mA, t < 300μs @ IF = 10mA, t < 300μs @ IF = 40mA, t < 300μs
Reverse Leakage Current	lr	_	20	200	nA	@ V _R = 30V, t < 300µs
Junction Capacitance	Cj	_	4.0	5.0	pF	V _R = 0V, f = 1.0MHz
Reverse Recovery Time	trr	_	_	5.0	nS	IF = 10mA through IR = 10mA to IR = 1.0mA, RL = 100Ω

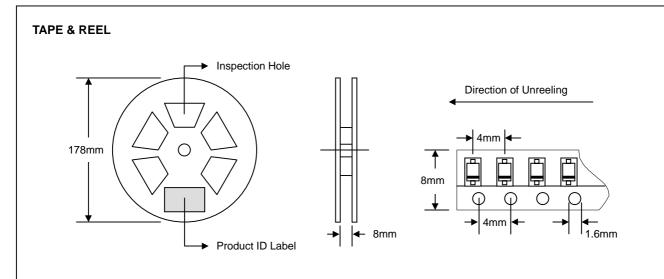
Note: 1 Device on fiberglass substrate.

MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
178	5,000	187 x 187 x 65	25,000	390 x 240 x 420	250,000	10.0

Note: 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment.

2. Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity		
BAS40WS-T1	SOD-323	5000/Tape & Reel		

- 1. Shipping quantity given is for minimum packing quantity only. For minimum
- order quantity, please consult the Sales Department.

 To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix 2. to part number above. For example, BAS40WS-T1-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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