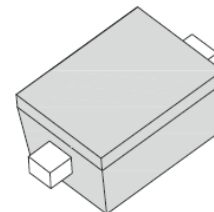


Two Terminals Schottky Barrier Diode

Features

- Fast switching speed
- High conductor
- Surface mount package ideally suited for automatic insertion
Electrical identical standard JEDEC
- RoHS compliant

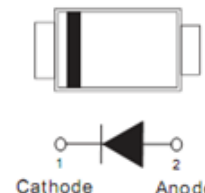


SOD-323



Mechanical Data

Case:	SOD-323, Plastic Case
Terminals:	Solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes the cathode end
Weight:	Approx. 0.004 gram



Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	BAS40WS3	Unit	Conditions
	Marking Code	S40		
VR	Reverse Voltage	40	V	
VRRM	Repetitive Peak Reverse Voltage	40	V	
IF(AV)	Average Rectified Current	200	mA	
IFSM	Non-repetitive Peak Forward Surge Current	4.0	A	t=1mS
PD	Power Dissipation	225	mW	
RthJA	Thermal Resistance, Junction to Ambient	56	$^{\circ}C/W$	
TJ	MaxJunction Temperature	150	$^{\circ}C$	
TSTG	Storage Temperature Range	-55 to +150	$^{\circ}C$	

Two Terminals Schottky Barrier Diodes

BAS40WS3

Electrical Characteristics ($T_{Ambient}=25^{\circ}\text{C}$ unless noted otherwise)

Symbol	Description	Min.	Max.	Unit	Conditions
V(BR)	Reverse Breakdown Voltage	40	-	V	$I_R=10\mu\text{A}$
V _F	Forward Voltage	-	0.38	V	$I_F=1\text{mA}$
		-	0.50	V	$I_F=10\text{mA}$
		-	1.00	V	$I_F=40\text{mA}$
I _R	Reverse Current	-	1.0	μA	$V_R=25\text{V}$
		-	10	μA	$V_R=40\text{V}$
C _T	Total Capacitance	-	5.0	pF	$V_R=0\text{V}$, $f=1\text{MHz}$

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

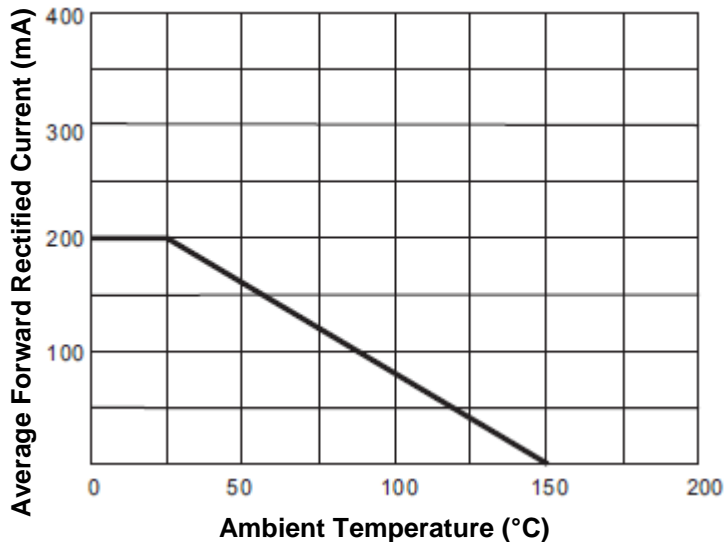
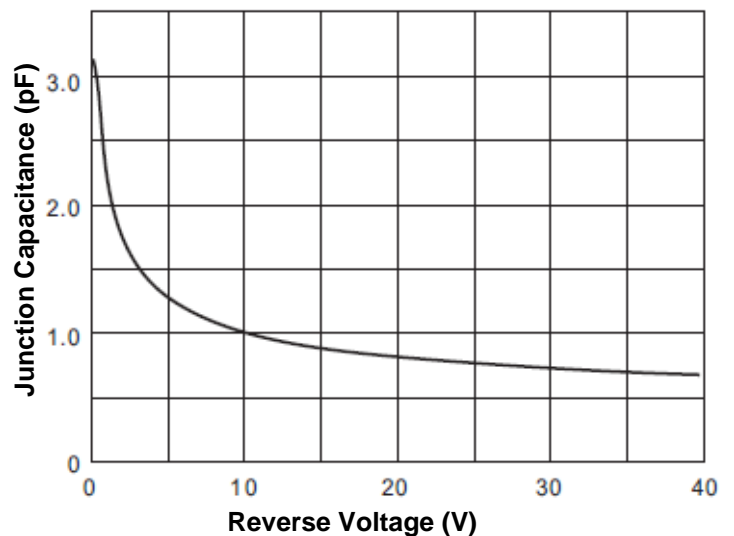


Fig.2- Typical Junction Capacitance



Two Terminals Schottky Barrier Diodes

BAS40WS3

Fig.3- Typical Instantaneous Forward Characteristics

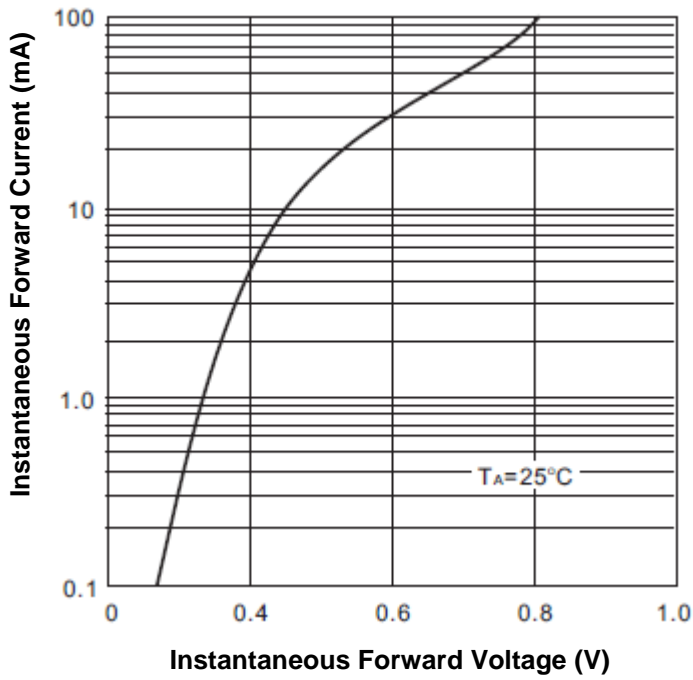
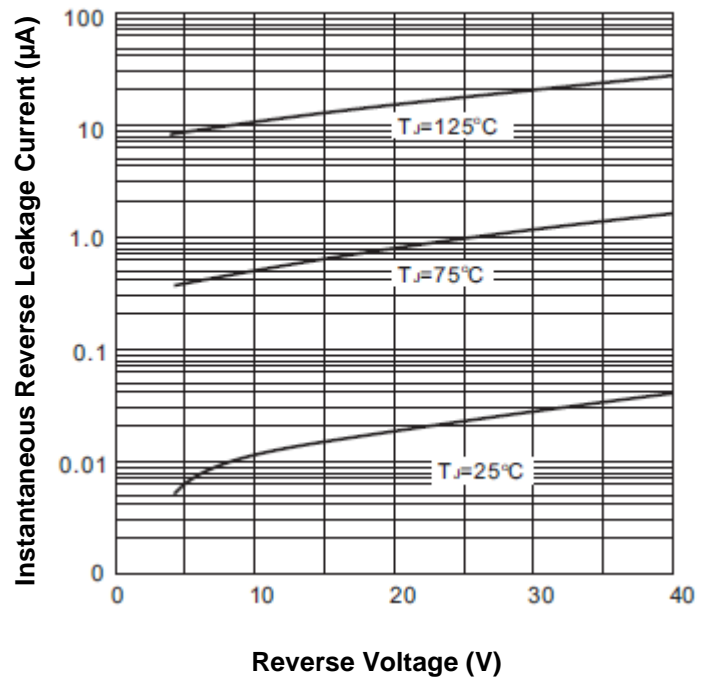


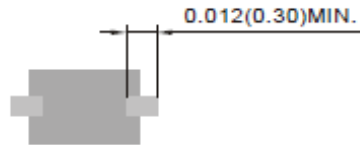
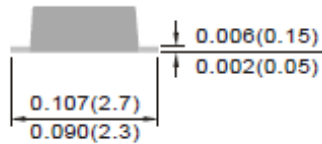
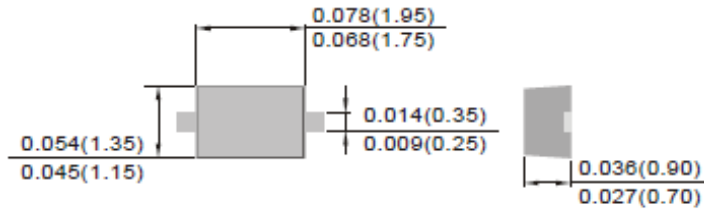
Fig.4-Typical Reverse Characteristics



Two Terminals Schottky Barrier Diodes

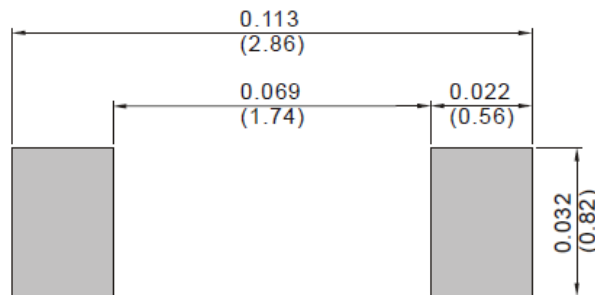
BAS40WS3

Dimensions in inch (mm)



SOD-323

Mounting Pad Layout in inch (mm)



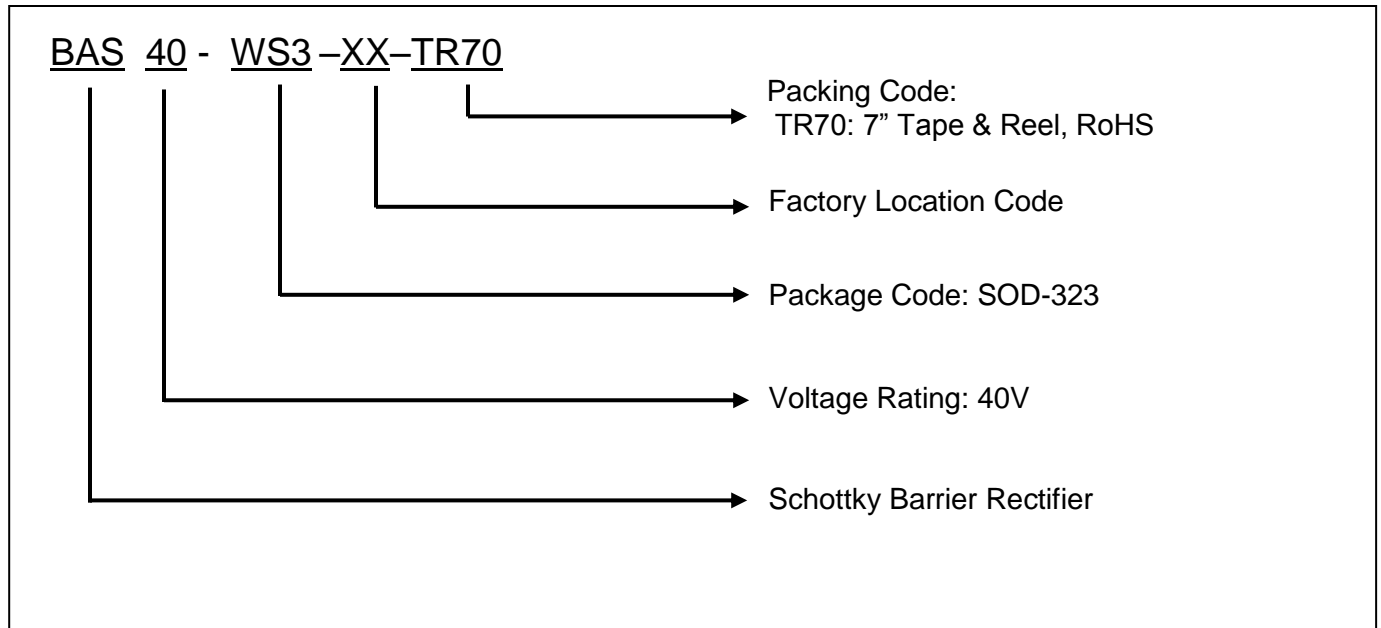
Packing Information

Tape and Reel --- 5K per 7" Plastic Reel

Two Terminals Schottky Barrier Diodes

BAS40WS3

Ordering Information



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