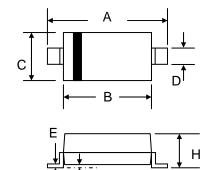


# SURFACE MOUNT SCHOTTKY BARRIER DIODE



### **Features**

- Very Low Forward Voltage
- Fast Switching Speed
- PN Junction Guard Ring for Transient and ESD Protection
- For General Purpose Switching Applications
- Plastic Material UL Recognition Flammability Classification 94V-0



SOD-323				
Dim	Min	Max		
Α	2.30	2.75		
В	1.60	1.80		
С	1.20	1.40		
D	0.25	0.40		
E	0.05	0.15		
G	0.20	0.40		
Н	_	1.10		
J	_	0.10		
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: W5

Lead Free: For RoHS / Lead Free Version,
Add "-LF" Suffix to Part Number, See Page 4

## Maximum Ratings @T<sub>A</sub>=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	10	V
Forward Continuous Current	lF	3.0	Α
Non-Repetitive Peak Forward Surge Current @ t < 10ms	IFSM	5.0	Α
Operating and Storage Temperature Range	ТЈ, Тѕтс	-55 to +150	°C

## **Thermal Characteristics**

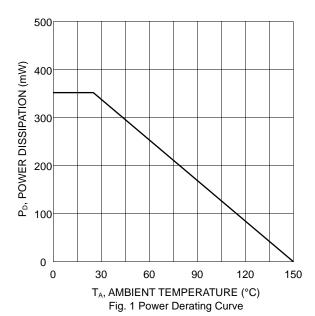
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	Po	350	mW
Thermal Resistance, Junction to Ambient (Note 1)	R JA	160	K/W

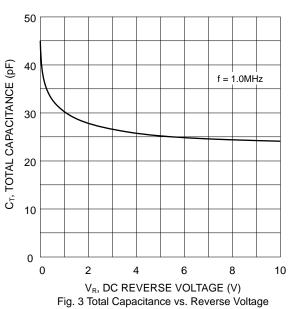
Note: 1. Mounted on FR-4 PC board with minimum recommended pad layout.

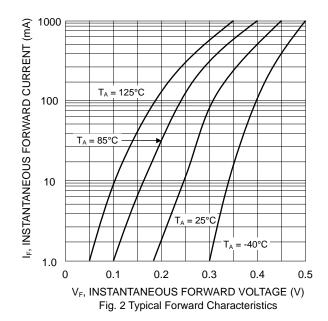


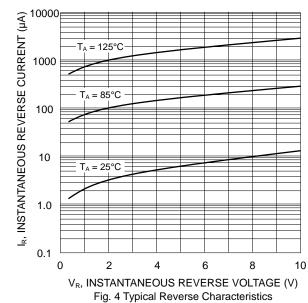
# Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic		Symbol	Min.	Тур.	Max.	Unit
Forward Voltage Drop	@ IF = 10mA @ IF = 100mA @ IF = 500mA @ IF = 1000mA	VF		0.24 0.32 0.40 0.48	0.30 0.38 0.50 0.60	٧
Reverse Leakage Current	@ VR = 5.0V, TA = 25°C @ VR = 5.0V, TA = 80°C @ VR = 8.0V, TA = 25°C @ VR = 8.0V, TA = 80°C	lr		5.0 100 10 410	15 800 25 1500	μΑ
Diode Capacitance (VR = 5.0V, f =	C <sub>D</sub>		25	30	pF	





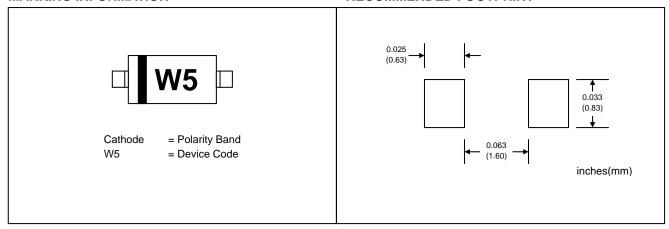






## **MARKING INFORMATION**

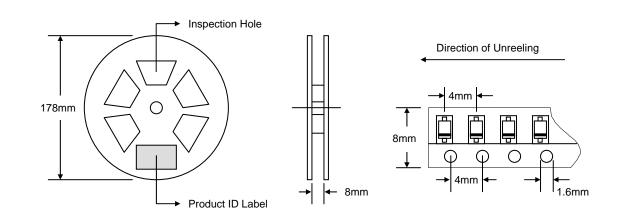
## RECOMMENDED FOOTPRINT



### **PACKAGING INFORMATION**



**TAPE & REEL** 



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	3,000	187 x 187 x 65	15,000	390 x 240 x 420	150,000	7.0

**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	
BAT60B-T1	SOD-323	3000/Tape & Reel	

- 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 to part number above. For example, BAT60B-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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