

SURFACE MOUNT SCHOTTKY BARRIER DIODE

D

G

Η

А

В



BAT60B

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

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 @TA=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	А
Non-Repetitive Peak Forward Surge Current @ t < 10ms	IFSM	5.0	А
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150	°C

С

E

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	PD	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.

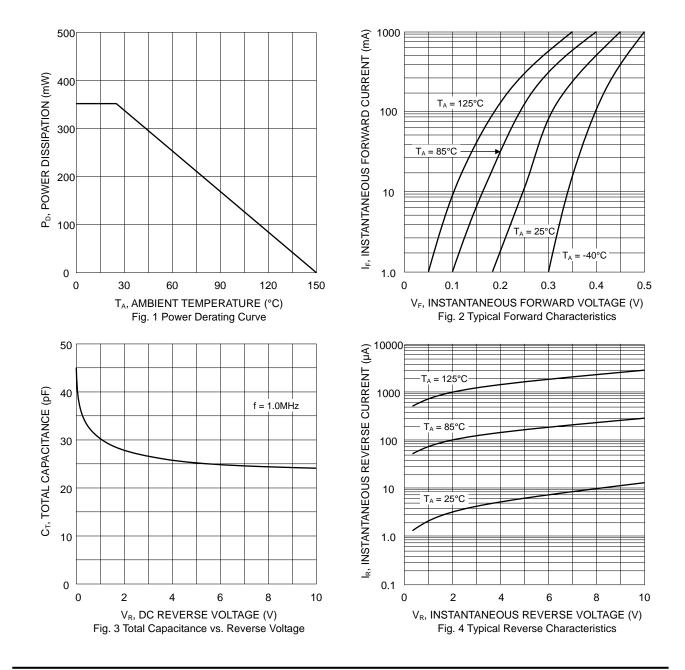


SOD-323			
Dim	Min	Max	
Α	2.30	2.75	
в	1.60	1.80	
С	1.15	1.35	
D	0.25	0.40	
Е	0.09	0.18	
G	G 0.20 0.4		
н	0.80	1.15	
J	_	0.12	
All Dimensions in mm			



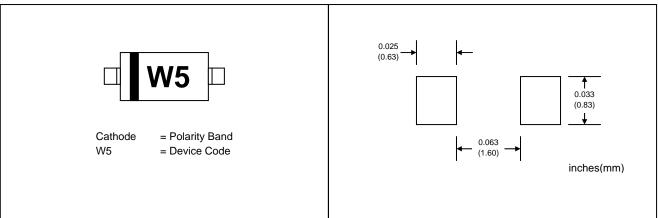
$\label{eq:transformation} Electrical Characteristics @T_A=25^{\circ}C \ unless \ otherwise \ specified$

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	V
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 	IR		5.0 100 10 410	15 800 25 1500	μA
Diode Capacitance (VR = 5.0V, f =	1.0MHz)	CD		25	30	pF



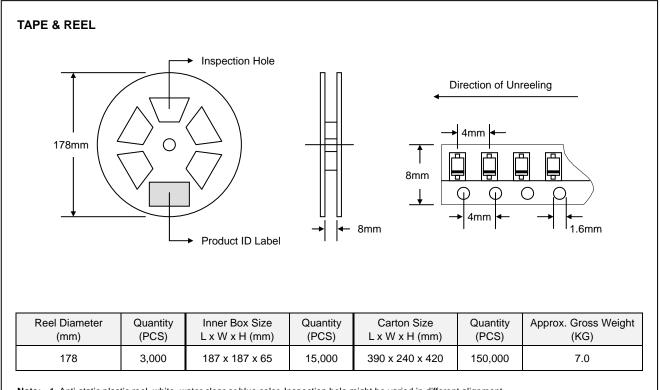


MARKING INFORMATION



RECOMMENDED FOOTPRINT

PACKAGING INFORMATION



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

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

2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, BAT60B-T1-LF.

WON-TOP ELECTRONICS and *we are registered trademarks of Won-Top Electronics Co., Ltd (WTE). WTE has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.*

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.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung 806, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410 Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

