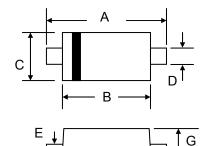


SURFACE MOUNT FAST SWITCHING DIODE



Features

- Silicon Epitaxial Planar Die Construction
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- Plastic Material UL Recognition Flammability Classification 94V-0



SOD-523				
Dim	Min	Max		
Α	1.50	1.70		
В	1.10	1.30		
С	0.70	0.90		
D	0.30 Typical			
E	0.10 Typical			
G	0.50	0.70		
L	0.15	0.25		
All Dimensions in mm				

Mechanical Data

Case: SOD-523, Molded Plastic

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

Polarity: Cathode Band

Weight: 0.002 grams (approx.)

Marking: A6

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

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	100	V
Forward Continuous Current	lF	200	mA
Non-Repetitive Peak Forward Surge Current, 60Hz	IFSM	500	mA
Repetitive Peak Forward Current	IFRM	500	mA
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150	°C

Thermal Characteristics

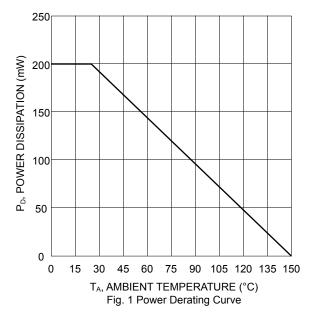
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	PD	200	mW
Thermal Resistance, Junction to Ambient (Note 1)	R JA	635	°C/W

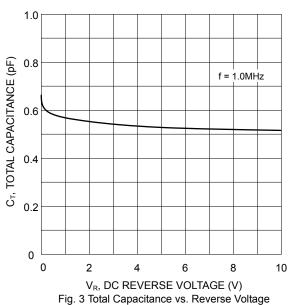
Note: 1. Mounted on FR-5 PC board with minimum recommended pad layout.

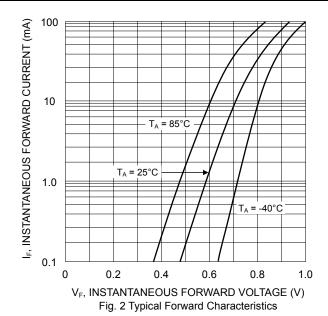


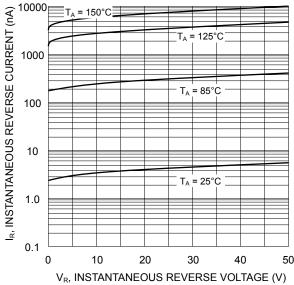
Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic		Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage	@ IR = 100µA	V(BR)	100			V
Forward Voltage Drop	@ IF = 1.0mA @ IF = 10mA @ IF = 50mA @ IF = 150mA	VFM			0.715 0.855 1.0 1.25	V
Peak Reverse Leakage Current	@ VR = 100V, TJ = 25°C @ VR = 25V, TJ = 150°C @ VR = 75V, TJ = 150°C	lrm			1.0 30 50	μΑ
Diode Capacitance (VR = 0V, f = 1.0MHz)		C _D			2.0	pF
Reverse Recovery Time (IF = IR = 10mA, IRR = 0.1 x IR, RL = 50Ω)		trr			6.0	nS





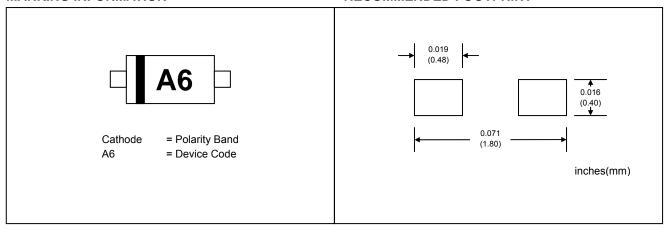






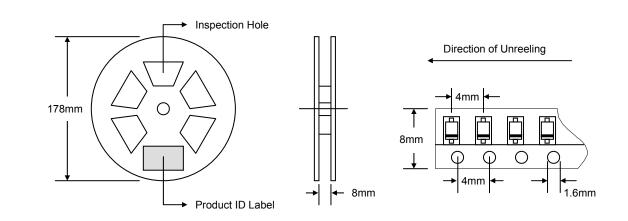
MARKING INFORMATION

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	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
BAS16X-T1	SOD-523	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, BAS16X-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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