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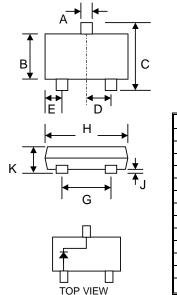
SURFACE MOUNT FAST SWITCHING DIODE

Features

- High Conductance
- Fast Switching
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose and Switching
- Plastic Material UL Recognition Flammability Classification 94V-O

Mechanical Data

- Case: SOT-23, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 0.008 grams (approx.)
- Mounting Position: Any
- Marking: A6
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



SOT-23			
Dim	Min	Max	
Α	0.37	0.51	
в	1.19	1.40	
С	2.10	2.50	
D	0.89	1.05	
E	0.45	0.61	
G	1.78	2.05	
Н	2.65	3.05	
ſ	0.013	0.15	
к	0.89	1.10	
L	0.45	0.61	
М	0.076	0.178	
All Dimensions in mm			

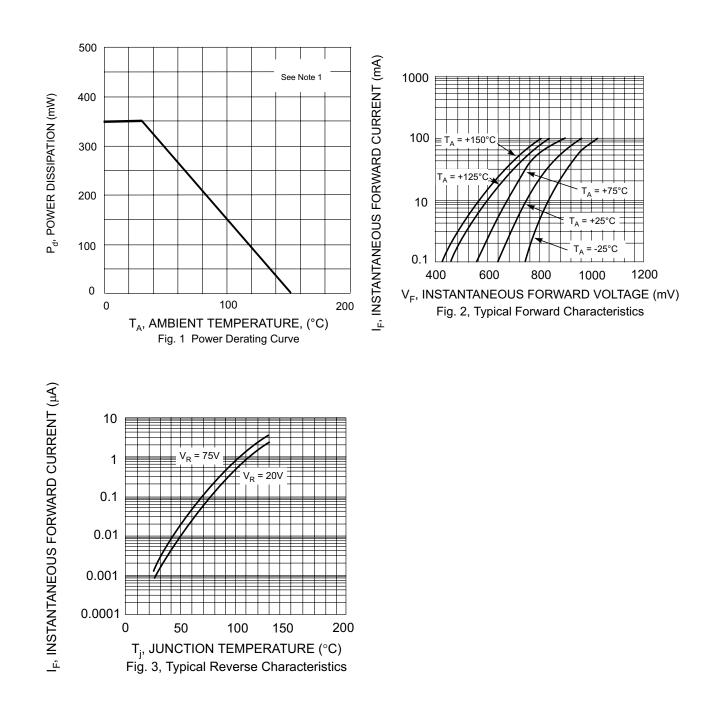
Maximum Ratings @T_A=25°C unless otherwise specified

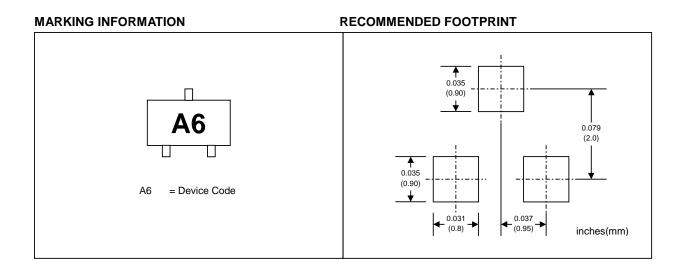
Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	Vrm	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	75	v
Forward Continuous Current (Note 1)	lf	300	mA
Average Rectified Output Current (Note 1)	ю	200	mA
Peak Forward Surge Current (Note 1) @ t < 1.0µs	IFSM	2.0	А
Power Dissipation (Note 1)	Pd	350	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	RθJA	357	°C/W
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150	°C

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

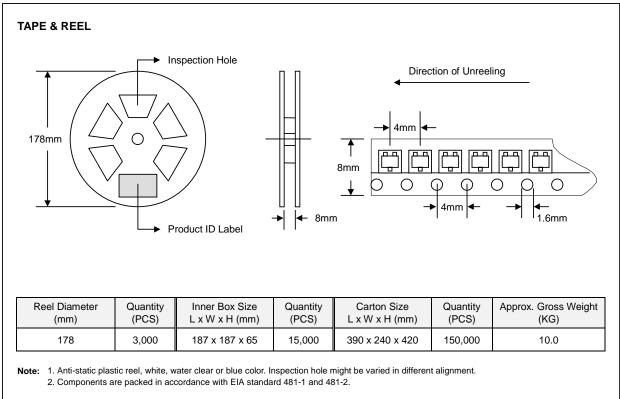
Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage	V(BR)R	75		V	@ IRS = 100µA
Forward Voltage	Vf	—	0.855	V	@ IF = 10mA
Reverse Leakage Current	IR	—	1.0	μA	@ VR = 75V
Junction Capacitance	Cj	—	2.0	pF	VR = 0V, f = 1.0MHz
Reverse Recovery Time	trr	—	6.0	nS	IF = IR = 10mA, $IRR = 0.1 \text{ x } IR, RL = 100 \Omega$

Note: 1. Device mounted on fiberglass substrate 40 x 40 x 1.5mm.





PACKAGING INFORMATION



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
BAS16-T1	SOT-23	3000/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 to part number above. For example, BAS16-T1-LF. 2.

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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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