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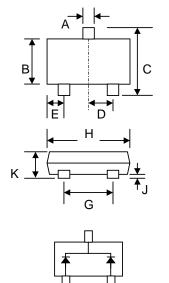
SURFACE MOUNT FAST SWITCHING DIODE

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



TOP VIEW

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		
Е	0.45	0.61		
G	1.78	2.05		
Н	2.65	3.05		
J	0.013	0.15		
к	0.89	1.10		
L	0.45	0.61		
М	0.076	0.178		
All Dimensions in mm				

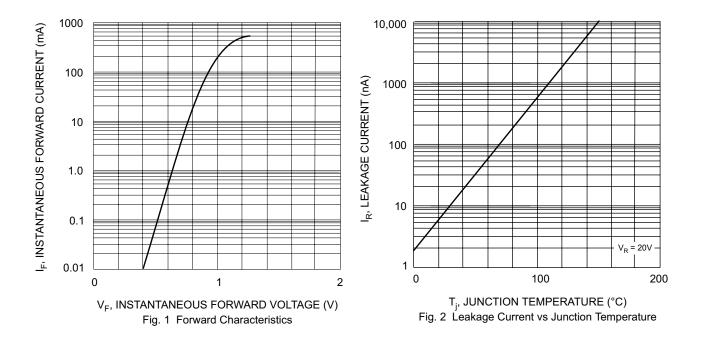
Maximum Ratings @T_A=25°C unless otherwise specified

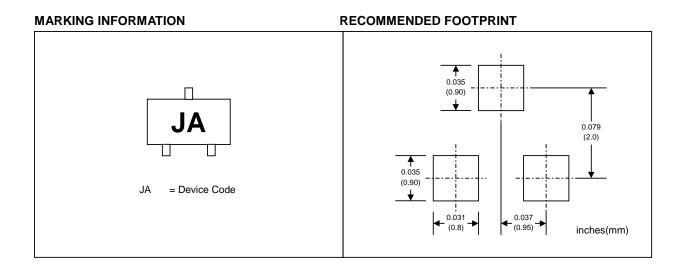
Characteristic	Symbol	Value	Unit	
Non-Repetitive Peak Reverse Voltage	Vrm	100	V	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	75	V	
Forward Continuous Current (Note 1)	lF	300	mA	
Average Rectified Output Current (Note 1)	lo	150	mA	
Peak Forward Surge Current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

Electrical Characteristics @T_A=25°C unless otherwise specified

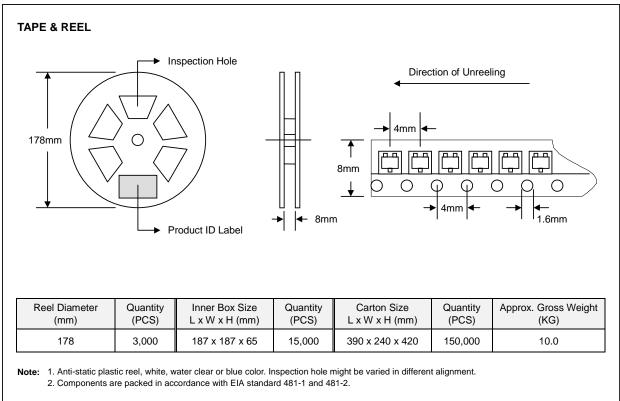
Characteristic	Symbol	Min	Max	Unit	Test Condition
Forward Voltage	VF	_	0.855 1.0	V	@ IF = 10mA @ IF = 50mA
Reverse Leakage Current	Ir	—	2.5	μA	@ VR = 75V
Junction Capacitance	Cj	—	2.0	pF	VR = 0V, f = 1.0MHz
Reverse Recovery Time	trr	—	6.0	nS	$\label{eq:F} \begin{array}{l} IF=IR=10mA,\\ IRR=0.1\ x\ IR,\ RL=100\ \Omega \end{array}$

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





PACKAGING INFORMATION



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity	
BAV70-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, BAV70-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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