

Technical Data Data Sheet N0592, Rev. -

Green Products

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
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Data

Case: SOT-23, Molded Plastic

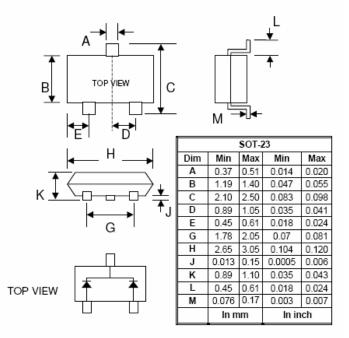
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: See Diagram

Weight: 0.008 grams (approx.)

Mounting Position: Any

Marking: JA



Maximum Ratings @T_A=25 ℃ 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	٧
Forward Continuous Current (Note 1)	lF	300	mA
Average Rectified Output Current (Note 1)	Ю	150	mA
Peak Forward Surge Current (Note 1) @ t < 1.0μs	IFSM	2.0	Α
Power Dissipation (Note 1)	Pd	350	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	R⊕ JA	357	K/W
Operating and Storage Temperature Range	Тj, Тsтg	-65 to +150	°C

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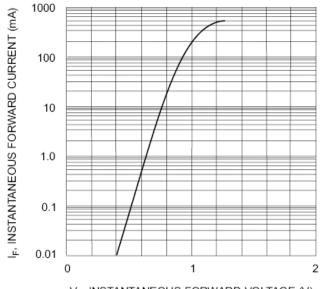


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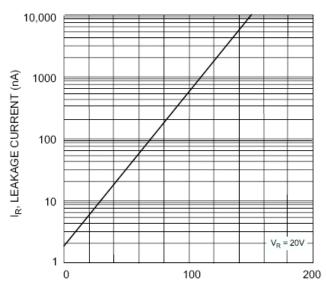
Electrical Characteristics @T_A=25℃ unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Forward Voltage	VF		0.855 1.0	٧	@ IF = 10mA @ IF = 50mA
Reverse Leakage Current	IR		2.5	μΑ	@ VR = 75V
Junction Capacitance	Cj	-	2.0	pF	VR = 0V, f = 1.0MHz
Reverse Recovery Time	trr		6.0	nS	IF = IR = 10mA, IRR = $0.1 \times IR$, RL = 100Ω

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



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 1 Forward Characteristics



T_j, JUNCTION TEMPERATURE (°C) Fig. 2 Leakage Current vs Junction Temperature

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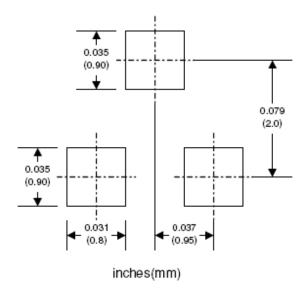
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ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity
BAV70-T1	SOT-23	3000/Tape & Reel
BAV70-T3	SOT-23	10000/Tape & Reel

RECOMMENDED FOOTPRINT



Products listed in bold are Sensitron Preferred devices.

T1 suffix refers to a 7 reel. T3 suffix refers to a 13* reel.

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

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BAV70 SURFACE MOUNT FAST SWITCHING DIODE

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