



DATA SHEET

BAS21A/C/S

SURFACE MOUNT, HIGH VOLTAGE, DUAL SWITCHING DIODES

VOLTAGE 250 Volts POWER 250mWatts SOT-23

FEATURES

- High reverse bearkdown voltage.
- · Fast switching speed.
- · Low reverse leakage current.
- Surface mount package ideally suited for automatic insertion.
- Galvanically isolated dual configurations to save board space.
- Both normal and Pb free product are available :

Normal: 80~95% Sn, 5~20% Pb Pb free: 98.5% Sn above

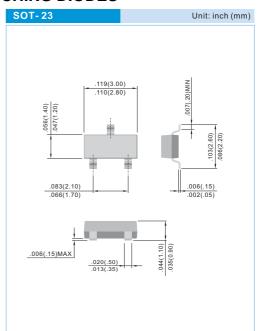
MECHANICAL DATA

Case: SOT-23, Plastic

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

Approx. Weight: 0.008 gram

Marking: BAS21A:21A, BAS21C:21C, BAS21S:21S

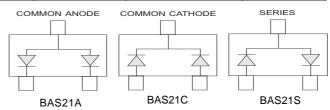


ABSOLUTE RATINGS

PARAMETER	Symbol	Value	Units
Maximum Reverse Voltage	VR	250	V
Peak Reverse Voltage	VRRM	250	V
Average Rectified Current at Temp=25°C	Ιο	0.2	А
Non-repetitive Peak Forward Surge Current at t=1.0 s	IFSM	2.5	А

THERMAL CHARACTERISTICS

PARAMETER	Symbol	Value	Units
Power Dissipation	Ртот	250	m W
Thermal Resistance, Junction to Ambient	RθJA	357	°C/W
Junction Temperature	TJ	150	°C
Storage Temperature	Тѕтс	-55 to 150	°C



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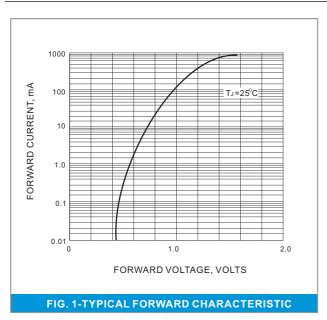




ELECTRICAL CHARACTERISTICS

PARAMETER	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Breakdown Voltage	V(BR)	IR=100 uA			250	V
Reverse Current	IR	V _R =200 V V _R =200 V, T _J = 150°C			0.1 100	uA
Forward Voltage	VF	IF=1.0mA IF=100mA			0.70 1.00	V
Maximum Junction Capacitance	Cı	VR=0V, f=1.0MHz			5.0	pF
Reverse Recovery Time	Trr	F= R=30mA, RL=100Ω			50	ns

ELECTRICAL CHARACTERISTICS CURVES



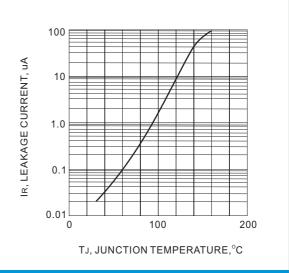
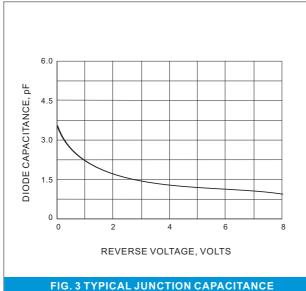
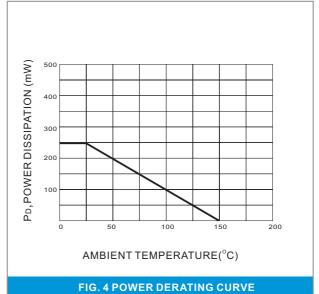


Fig.2 LEAKAGE CURRENT vs JUNCTION TEMPERATURE



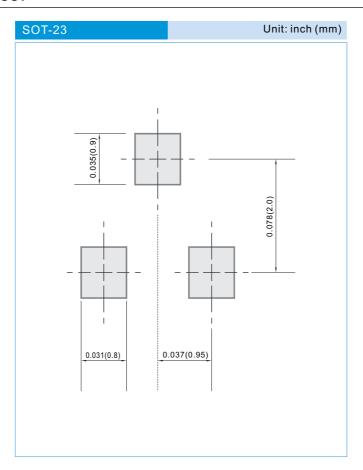


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MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 3.0K per 7" plastic Reel

LEGAL STATEMENT

IMPORTANT NOTICE

This information is intended to unambiguously characterize the product in order to facilitate the customer's evaluation of the device in the application. The information will help the customer's technical experts determine that the device is compatible and interchangeable with similar devices made by other vendors. The information in this data sheet is believed to be reliable and accurate. The specifications and information herein are subject to change without notice. New products and improvements in products and product characterization are constantly in process. Therefore, the factory should be consulted for the most recent information and for any special characteristics not described or specified.

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