

DATA SHEET

BAS21A/C/S

SURFACE MOUNT, HIGH VOLTAGE, DUAL SWITCHING DIODES

VOLTAGE 250 Volts **POWER** 250mWatts

SOT-23 Unit: inch (mm)

FEATURES

- High reverse beardown voltage.
- Fast switching speed.
- Low reverse leakage current.
- Surface mount package ideally suited for automatic insertion.
- Galvanically isolated dual configurations to save board space.
- In compliance with EU RoHS 2002/95/EC directives

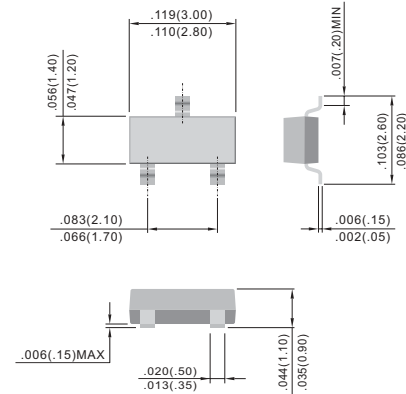
MECHANICAL DATA

Case: SOT-23, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.008 gram

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

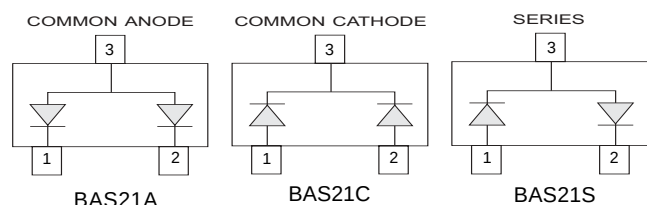


ABSOLUTE RATINGS

PARAMETER	Symbol	Value	Units
Maximum Reverse Voltage	V_R	250	V
Peak Reverse Voltage	V_{RRM}	250	V
Average Rectified Current at Temp=25°C	I_o	0.2	A
Non-repetitive Peak Forward Surge Current at t=1.0 μs	I_{FSM}	4.0	A

THERMAL CHARACTERISTICS

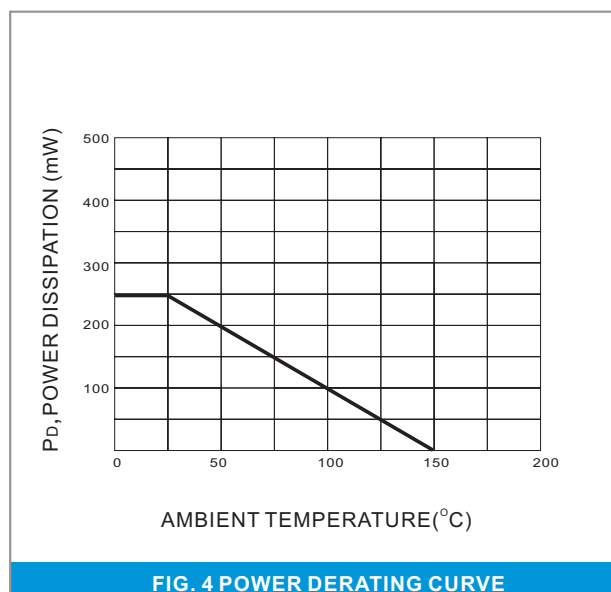
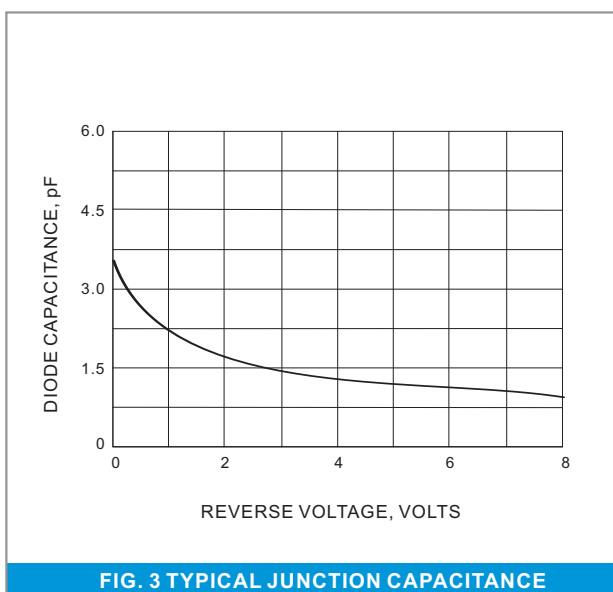
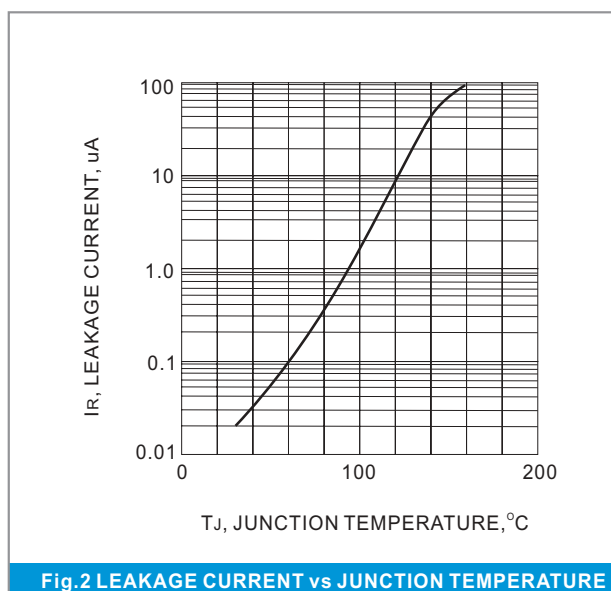
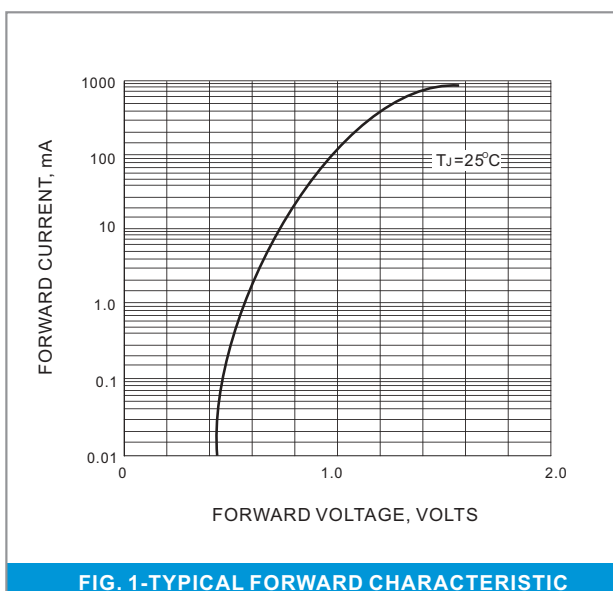
PARAMETER	Symbol	Value	Units
Power Dissipation	P_{TOT}	250	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	357	°C/W
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 to 150	°C



ELECTRICAL CHARACTERISTICS

PARAMETER	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=100 \mu A$	--	--	250	V
Reverse Current	I_R	$V_R=200 V$ $V_R=200 V, T_J = 150^\circ C$	--	--	0.1 100	μA
Forward Voltage	V_F	$I_F=1.0mA$ $I_F=100mA$	--	--	0.70 1.00	V
Maximum Junction Capacitance	C_J	$V_R=0V, f=1.0MHz$	--	--	5.0	pF
Reverse Recovery Time	T_{rr}	$I_F=I_R=30mA, R_L=100\Omega$	--	--	50	ns

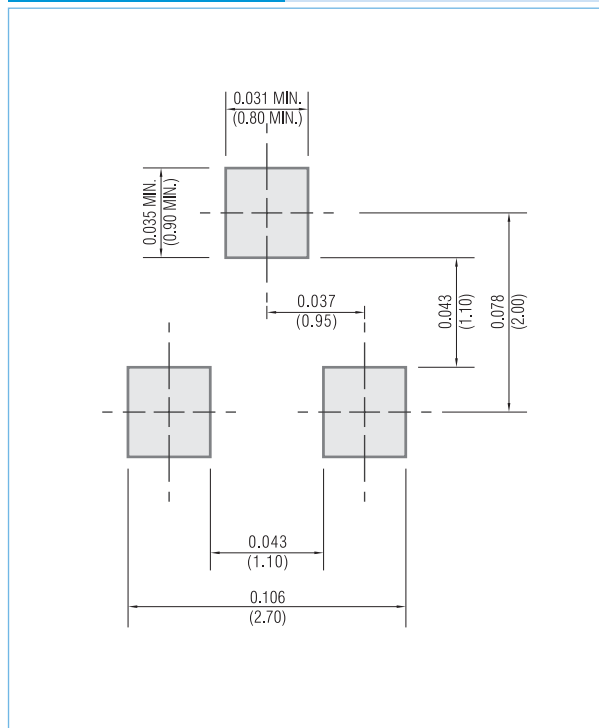
ELECTRICAL CHARACTERISTICS CURVES



MOUNTING PAD LAYOUT

SOT-23

Unit: inch (mm)



ORDER INFORMATION

- Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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