



DATA SHEET

BAS21A/C/S

SURFACE MOUNT, HIGH VOLTAGE, DUAL SWITCHING DIODES

VOLTAGE	250 Volts	POWER	250mWatts
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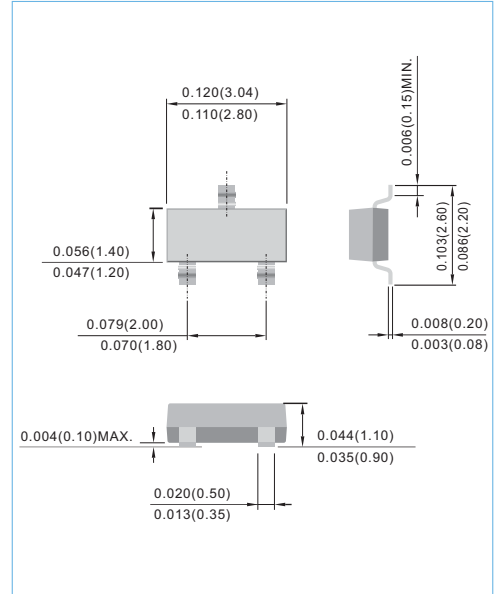
SOT-23 Unit : inch(mm)

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.

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

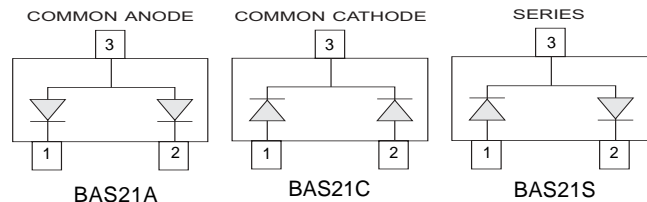


ABSOLUTE RATINGS

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

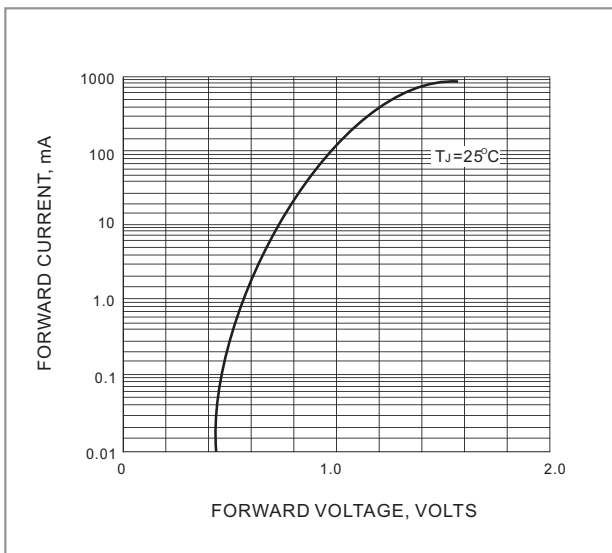


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

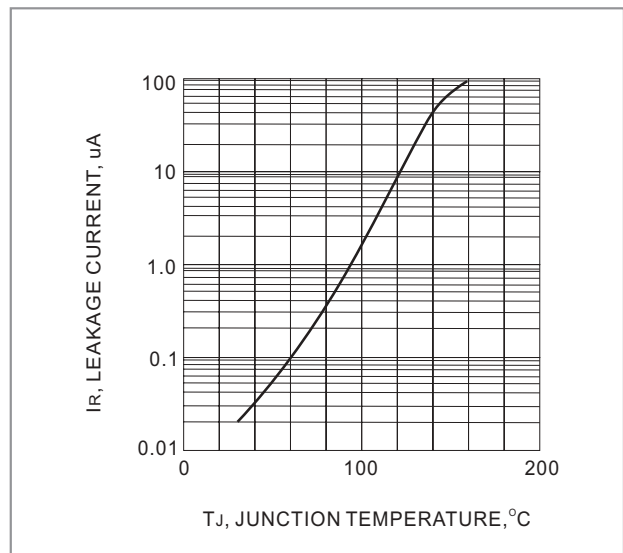


Fig.2 LEAKAGE CURRENT vs JUNCTION TEMPERATURE

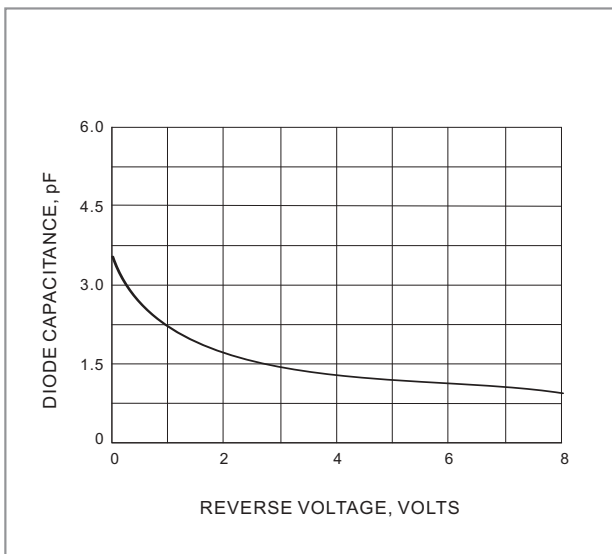


FIG. 3 TYPICAL JUNCTION CAPACITANCE

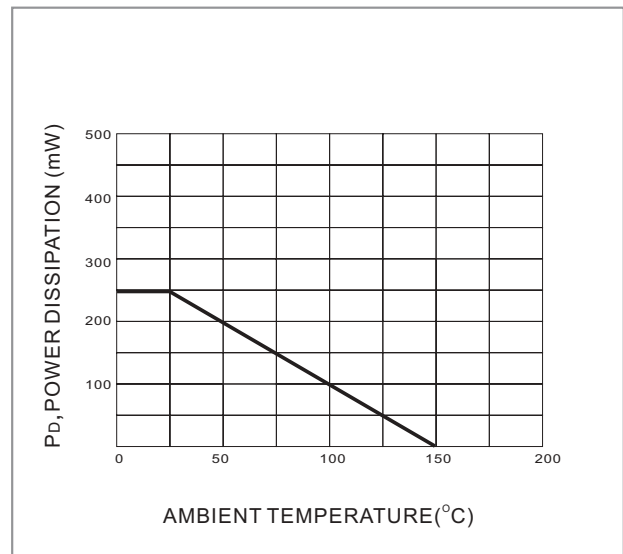
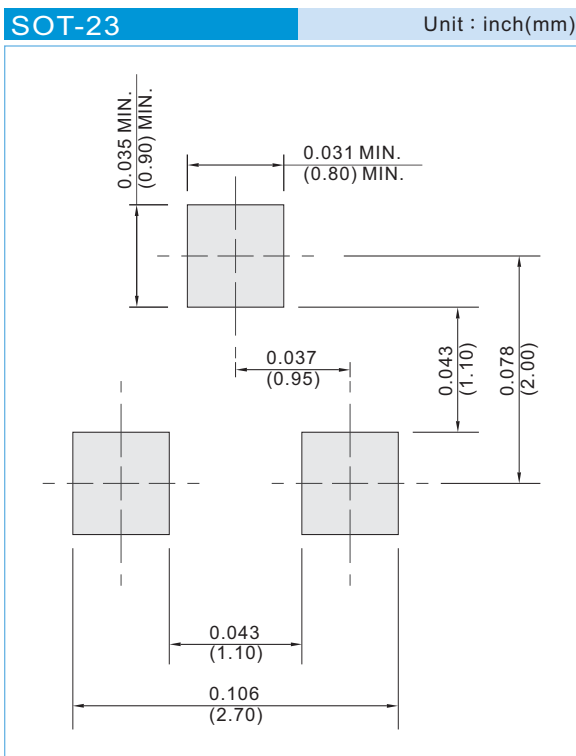


FIG. 4 POWER DERATING CURVE



MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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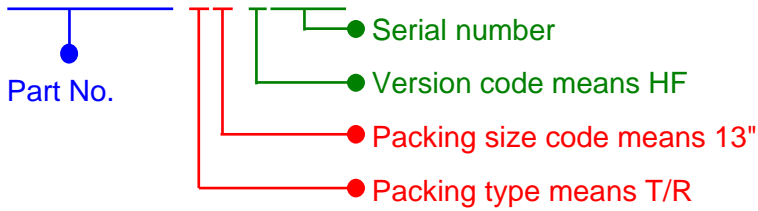
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Part No_packing code_Version

For example :

RB500V-40_R2_00000



Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th Code
T/B	A	N/A	0	HF	0	serial number
T/R	R	7"	1	RoHS	1	serial number
B/P	B	13"	2			
T/P	T	26mm	X			
TRR	S	52mm	Y			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			