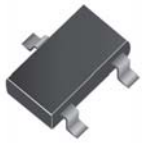


Small Signal Diode

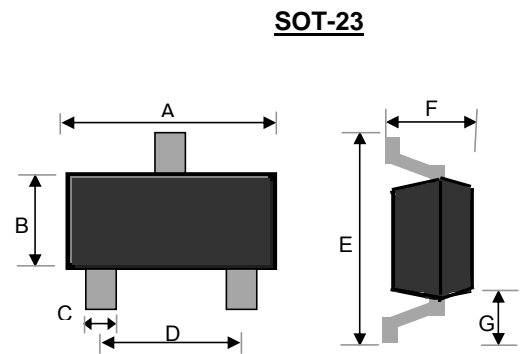


Features

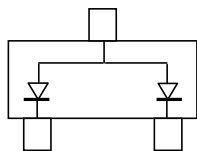
- ✧ Fast switching speed, High conductance
- ✧ Surface device type mounting
- ✧ Moisture sensitivity level 1
- ✧ Matte Tin(Sn) lead finish with Nickel(Ni) underplate
- ✧ Pb free version and RoHS compliant
- ✧ Green compound (Halogen free) with suffix "G" on packing code and prefix "G" on date code

Mechanical Data

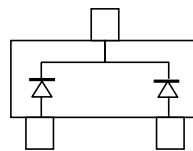
- ✧ Case :SOT-23 small outline plastic package
- ✧ Terminal: Matte tin plated, lead free., solderable per MIL-STD-202, Method 208 guaranteed
- ✧ High temperature soldering guaranteed:
- ✧ Weight : 0.008gram (approximately)



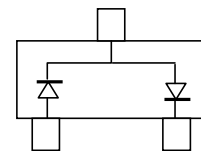
Dimensions	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	2.80	3.00	0.110	0.118
B	1.20	1.40	0.047	0.055
C	0.30	0.50	0.012	0.020
D	1.80	2.00	0.071	0.079
E	2.25	2.55	0.089	0.100
F	0.90	1.20	0.035	0.043
G	0.550	REF	0.022	REF



BAW56



BAV70



BAV99

Ordering Information

Part No.	Package	Packing
BAXXX RF	SOT-23	3Kpcs / 7" Reel

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Maximum Ratings

Type Number	Symbol	Value	Units
Power Dissipation	P_D	225	mW
Repetitive Peak Reverse Voltage	V_{RRM}	70	V
Repetitive Peak Forward Current	I_{FRM}	450	mA
Mean Forward Current	I_o	200	mA
Non-Repetitive Peak Forward Surge Current (Note 1)	I_{FSM}	Pulse Width=1 sec	0.5
		Pulse Width=1 μsec	2
Thermal Resistance (Junction to Ambient) (Note 2)	$R_{\theta JA}$	357	°C/W
Junction and Storage Temperature Range	T_J, T_{STG}	-55 to + 150	°C

Electrical Characteristics

Type Number	Symbol	Min	Max	Units
Reverse Breakdown Voltage	$V_{(BR)}$	70	-	V
Forward Voltage	V_F	$I_F=100\mu A$	-	1.00
		$I_F=150mA$	-	1.25
Reverse Leakage Current	I_R	-	2.50	μA
Junction Capacitance	C_J	-	1.5	pF
Reverse Recovery Time	T_{rr}	-	6.0	ns

Notes:1. Test Condition : 8.3ms Single half Sine-Wave Superimposed on Rated Load (JEDEC Method)

Notes:2. Valid provided that electrodes are kept at ambient temperature

Small Signal Diode

FIG 1 Typical Forward Characteristics

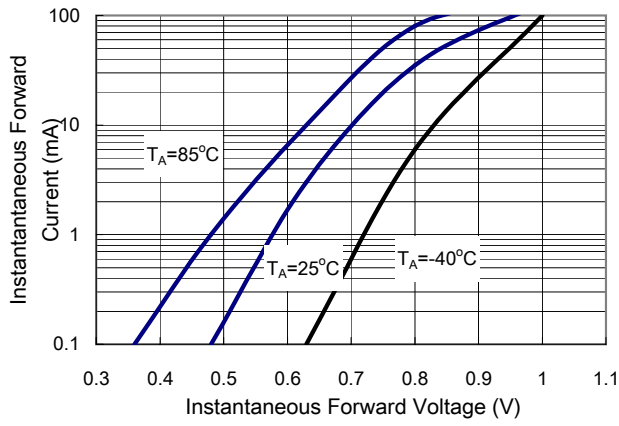


FIG 2 Typical Reverse Characteristics

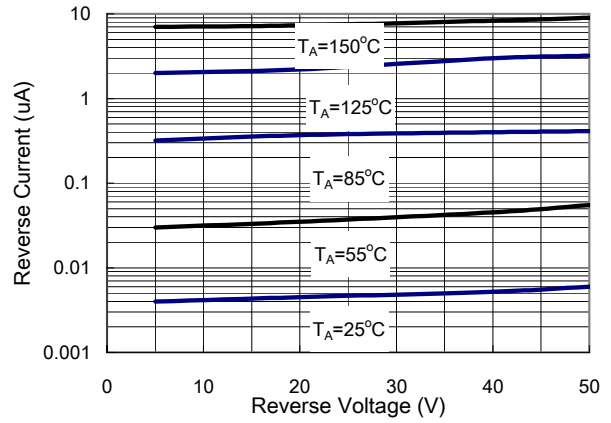


FIG 3 Peak Pulse Current vs Pulse duration

