Small Signal Schottky Diodes

COMCHIP
SMD DIODE SPECIALIST

BAS70/-04/-05/-06-G

Reverse Voltage: 70 Volts
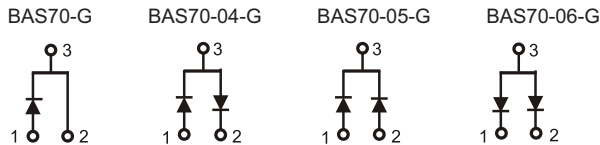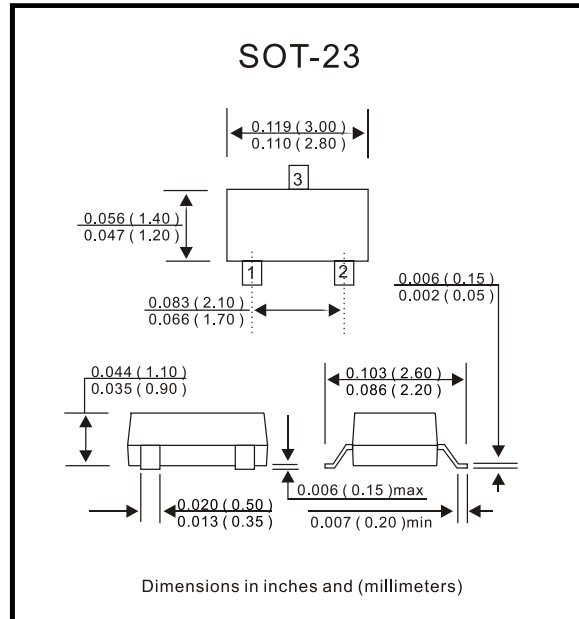**Forward Current: 70 mA**
RoHS Device

Features

Designed for mounting on small surface.

High speed switching application, circuit protection.

Low turn-on voltage

Mechanical data

Case:SOT-23, molded plastic.

Terminals: Solder plated, solderable per MIL-STD-750, method 208.

Approx. weight: 0.008 gram

SOT-23

0.119 (3.00)
0.110 (2.80)

0.056 (1.40)
0.047 (1.20)

0.083 (2.10)
0.066 (1.70)

0.006 (0.15)
0.002 (0.05)

0.044 (1.10)
0.035 (0.90)

0.103 (2.60)
0.086 (2.20)

0.020 (0.50)
0.013 (0.35)

0.006 (0.15)max
0.007 (0.20)min

Dimensions in inches and (millimeters)

BAS70-G   BAS70-04-G   BAS70-05-G   BAS70-06-G

Maximum Ratings and Electrical Characteristics
(at Ta = 25°C unless otherwise noted)

Parameter	Condition	Symbol	Value	Unit
Repetitive peak reverse voltage		V_{RRM}	70	V
Reverse voltage		V_R	70	V
Forward current		I_F	70	mA
Surge peak forward current	T < 1.0 sec	I_{FSM}	0.1	A
Power dissipation		Pd	200	mW
Maximum forward voltage	@ I_F = 1.0 mA, tp<300us @ I_F = 15 mA, tp<300us	V_F	0.41 1.0	V
Maximum reverse current	@ V_R = 50V	I_R	0.1	uA
Max reverse recovery time	Note 1	Trr	2	nS
Maximum diode capacitance	V_R=0V, f=1MHz	C_T	5	pF
Max. junction temperature		Tj	125	$^\circ$C
Storage temperature		T_{STG}	-65 to +150	$^\circ$C

Note1: I_F=10mA through I_R=10mA to I_R=1.0mA, R_L=100 ohms

RATING AND CHARACTERISTIC CURVES (**BAS70/-04/-05/-06-G**)
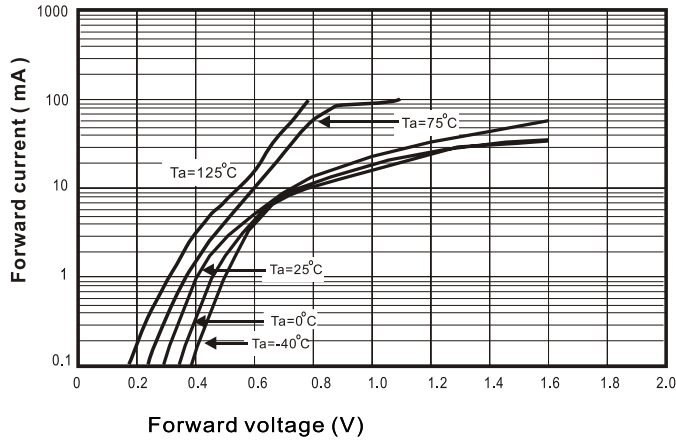
Fig. 1 - Forward characteristics

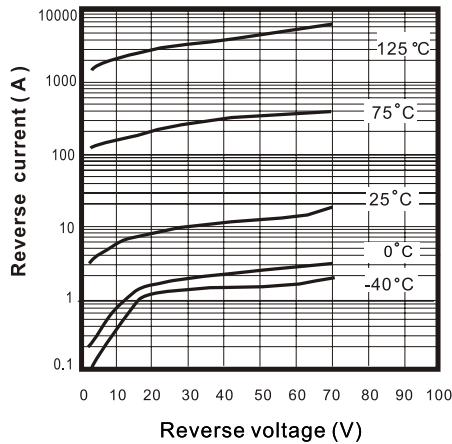Fig. 2 - Reverse characteristics

Fig. 3 - Capacitance between terminals characteristics
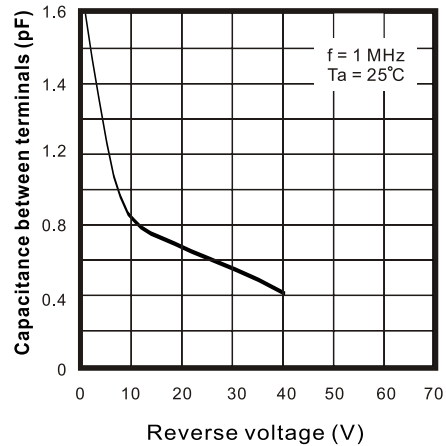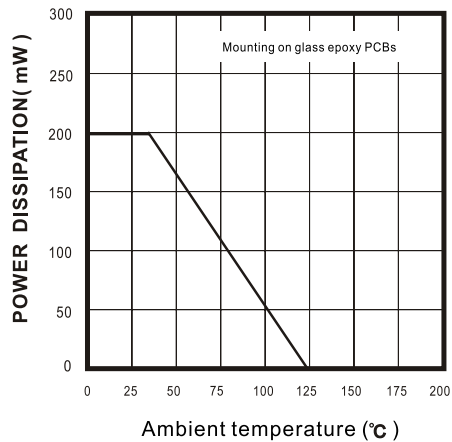

Fig. 4 - Power Derating Curve

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