

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.

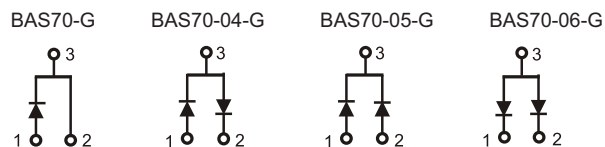
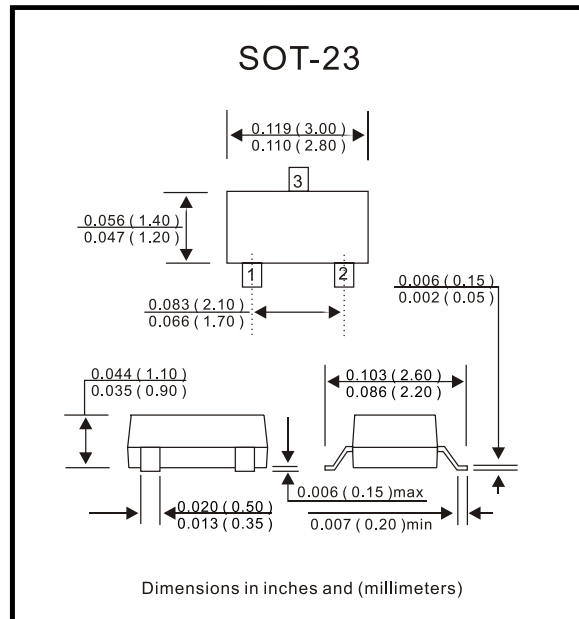
Low turn-on voltage

Mechanical data

Case: SOT-23, molded plastic.

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

Approx. weight: 0.008 gram



Maximum Ratings and Electrical Characteristics

(at $T_a = 25^\circ\text{C}$ 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	$T < 1.0 \text{ sec}$	I_{FSM}	0.1	A
Power dissipation		P_d	200	mW
Maximum forward voltage	@ $I_F = 1.0 \text{ mA}$, $t_p < 300 \mu\text{s}$ @ $I_F = 15 \text{ mA}$, $t_p < 300 \mu\text{s}$	V_F	0.41 1.0	V
Maximum reverse current	@ $V_R = 50 \text{ V}$	I_R	0.1	μA
Max reverse recovery time	Note 1	T_{rr}	2	nS
Maximum diode capacitance	$V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C_T	5	pF
Max. junction temperature		T_j	125	$^\circ\text{C}$
Storage temperature		T_{STG}	-65 to +150	$^\circ\text{C}$

Note1: $I_F = 10 \text{ mA}$ through $I_R = 10 \text{ mA}$ to $I_R = 1.0 \text{ mA}$, $R_L = 100 \text{ ohms}$

RATING AND CHARACTERISTIC CURVES (BAS70/-04/-05/-06-G)

Fig. 1 - Forward characteristics

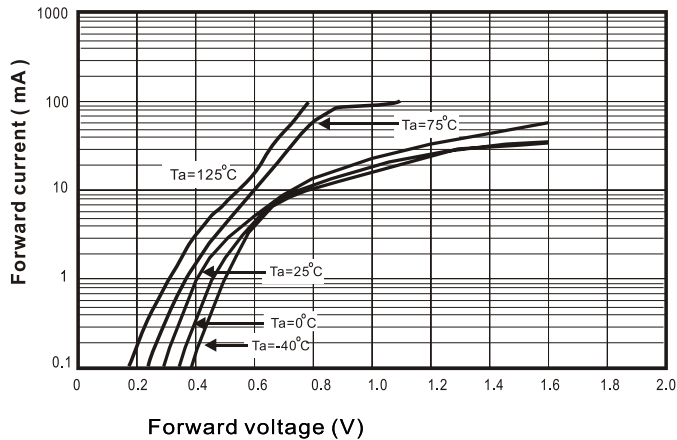


Fig. 2 - Reverse characteristics

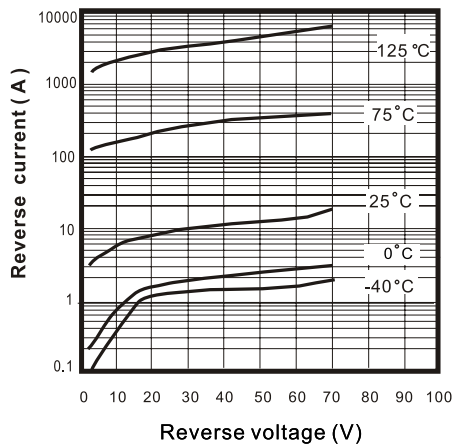


Fig. 3 - Capacitance between terminals characteristics

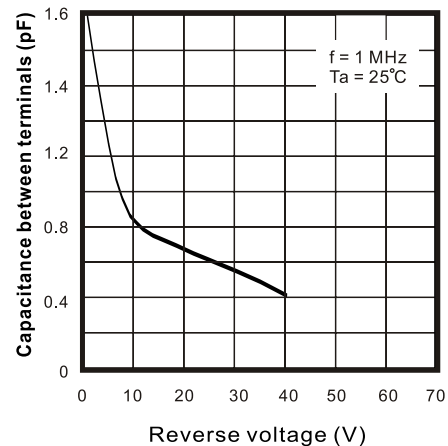


Fig. 4 - Power Derating Curve

