

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.

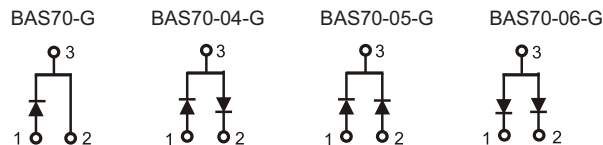
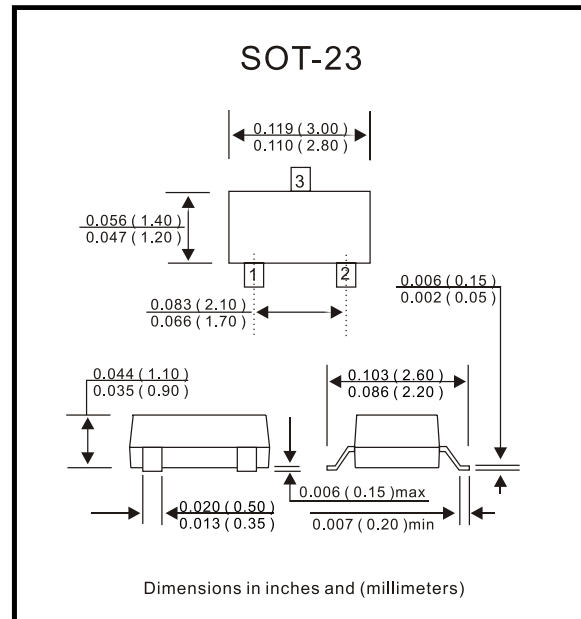
Low turn-on voltage

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 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		P _d	200	mW
Maximum forward voltage	@ I _F = 1.0 mA, t _p < 300us @ I _F = 15 mA, t _p < 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	T _{rr}	2	nS
Maximum diode capacitance	V _R =0V, f=1MHz	C _T	5	pF
Max. junction temperature		T _j	125	°C
Storage temperature		T _{STG}	-65 to +150	°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

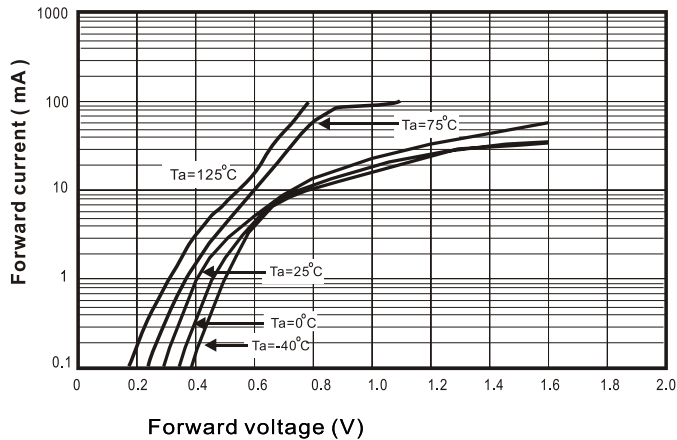


Fig. 2 - Reverse characteristics

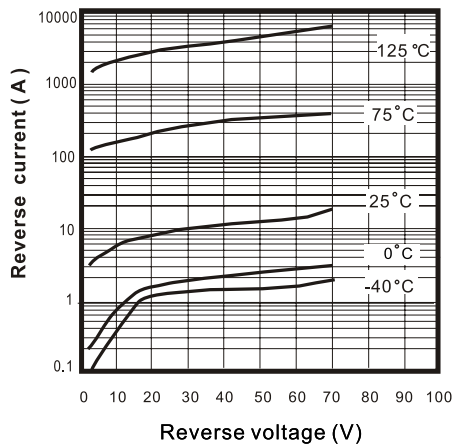


Fig. 3 - Capacitance between terminals characteristics

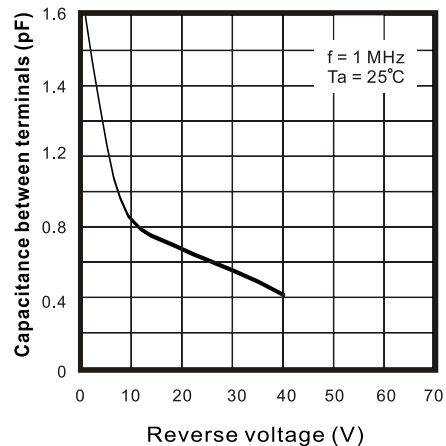


Fig. 4 - Power Derating Curve

