



BAS70 SERIES

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 70 Volts **CURRENT** 0.2 Amperes

SOT-23

Unit: inch (mm)

FEATURES

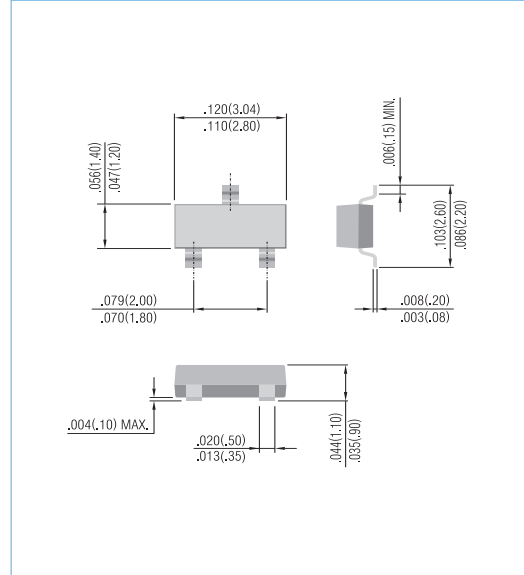
- Fast switching speed
- Surface mount package ideally suited for automatic insertion
Electrical identical standard JEDEC
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

Case: SOT-23, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.008 gram



ABSOLUTE RATINGS

Parameter	Symbol	Value	Units
Reverse Voltage	V_R	70	V
Peak Reverse Voltage	V_{RRM}	70	V
Average Rectified Current at Temp=25°C	$I_{F(AV)}$	0.2	A
Non-repetitive Peak Forward Surge Current at t=1.0 s	I_{FSM}	0.6	A

THERMAL CHARACTERISTICS

Parameter	Symbol	BAS70	BAS70A	BAS70C	BAS70S	Units
Marking code	-	A70	A72	A73	A74	-
Power Dissipation	P_D	225				mW
Thermal Resistance , Junction to Ambient (Note 1)	$R_{\theta JA}$	556				°C/W
Operating Junction Temperature	T_J	-55 to 150				°C
Operating Storage Temperature	T_{STG}	-55 to 150				°C
Circuit Configuration	-	SINGLE	COMMON ANODE	COMMON CATHODE	SERIES	-

Note : 1. Mounted on min pad conditions using FR-4 PCB

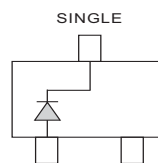


FIG. 14

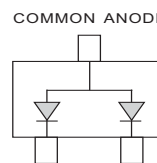


FIG. 15

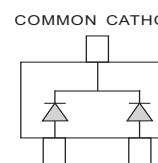


FIG. 16

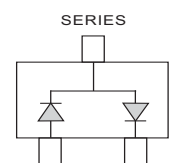


FIG. 17

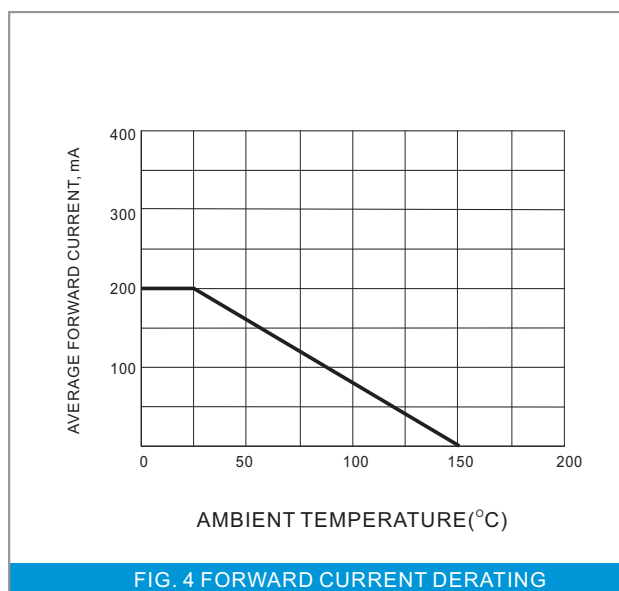
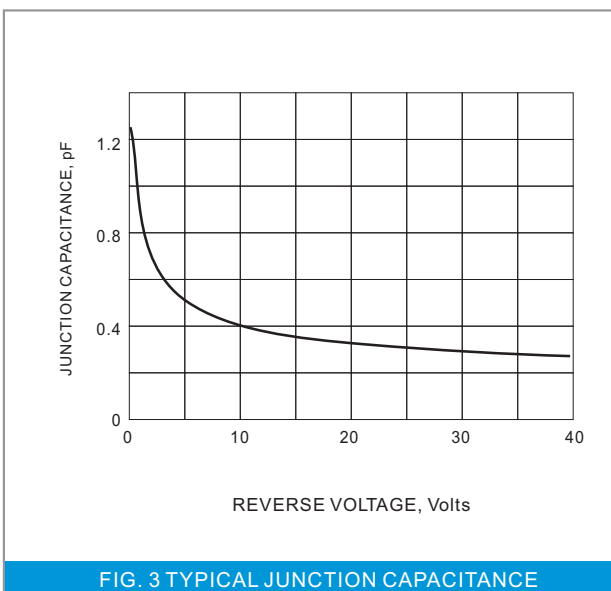
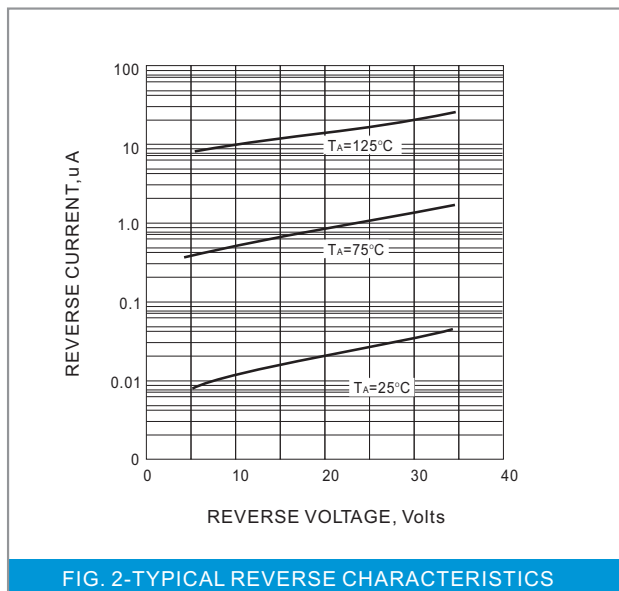
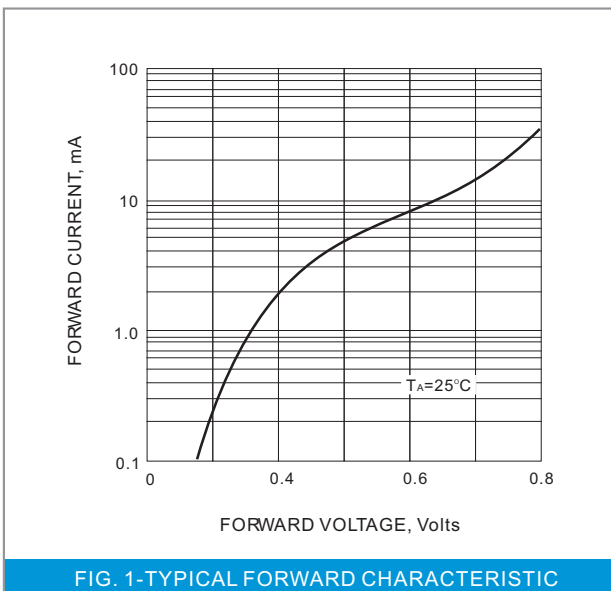


BAS70 SERIES

ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Units
Reverse Breakdown Voltage	$V_{(BR)}$	$I_{R}=10 \mu A$	70	--	--	V
Reverse Current	I_{R}	$V_{R}=70 V$ $V_{R}=50 V$	--	--	1.0 0.1	μA
Forward Voltage	V_{F}	$I_{F}=1.0mA$ $I_{F}=10mA$ $I_{F}=15mA$	--	--	0.41 0.75 1.00	V
Maximum Junction Capacitance	C_{J}	$V_{R}=0V, f=1.0MHz$	--	--	2.0	pF

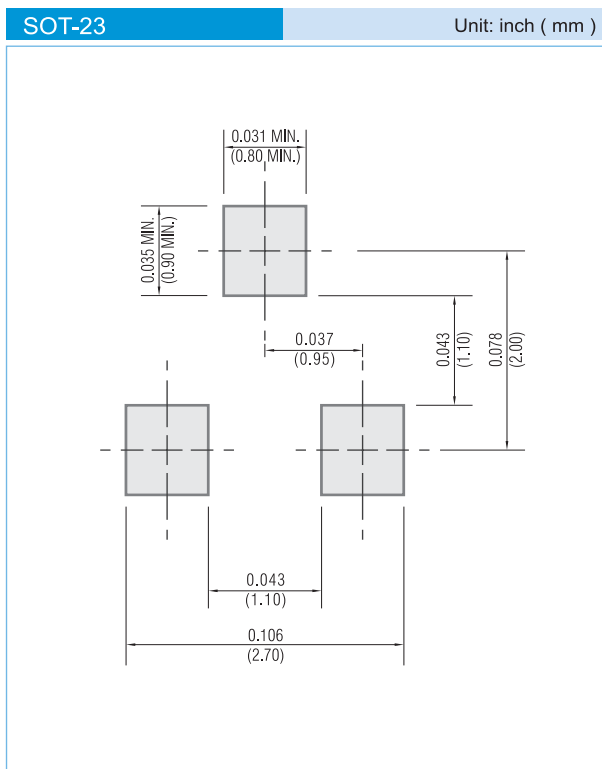
ELECTRICAL CHARACTERISTICS CURVE





BAS70 SERIES

MOUNTING PAD LAYOUT



ORDER INFORMATION

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

LEGAL STATEMENT

Copyright PanJit International, Inc 2010

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.