



BAS70 SERIES

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 70 Volts **CURRENT** 0.2 Amperes

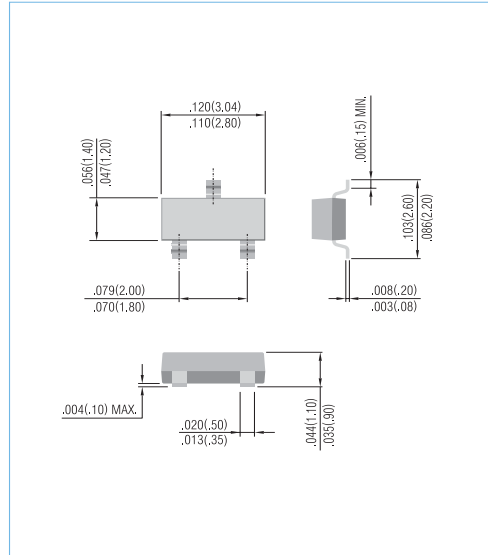
FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
Electrical identical standard JEDEC
- High conductor
- 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

SOT-23 Unit: inch (mm)



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_{TOT}	225				mW
Thermal Resistance , Junction to Ambient	$R_{\theta JA}$	556				°C/W
Junction Temperature	T_J	150				°C
Storage Temperature at Temp=25°C	T_{STG}	-55 to 150				°C
Circuit Figure	-	SINGLE	COMMON ANODE	COMMON CATHODE	SERIES	-

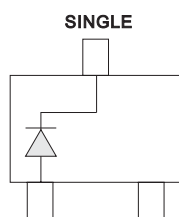


Fig.14

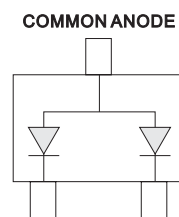


Fig.15

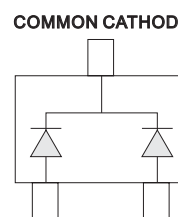


Fig.16

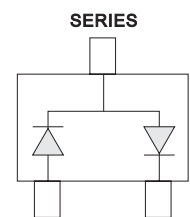


Fig.17



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

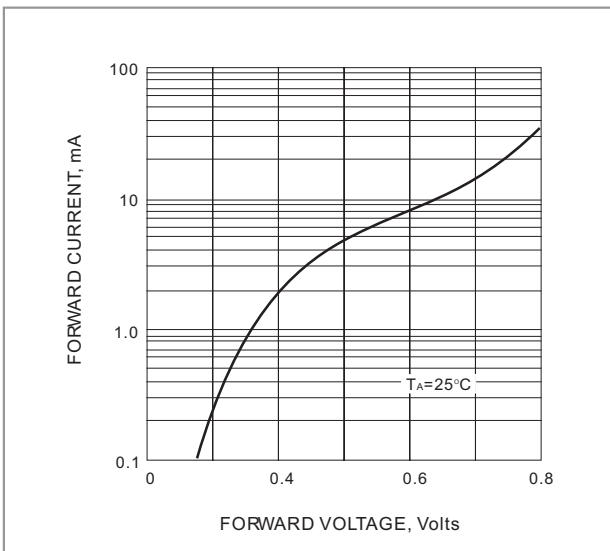


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

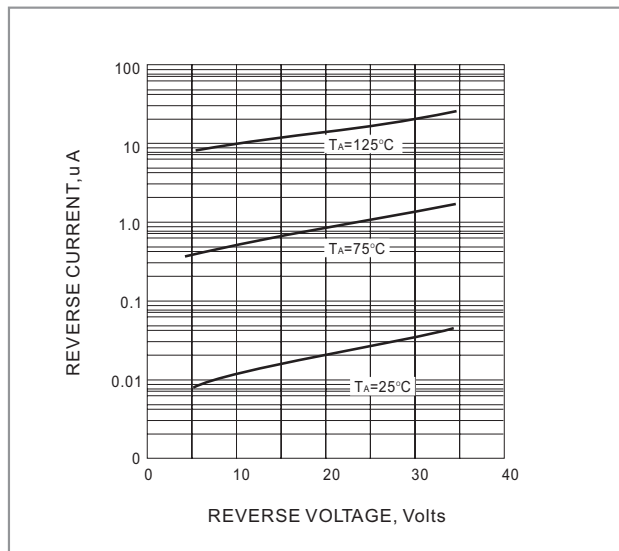


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

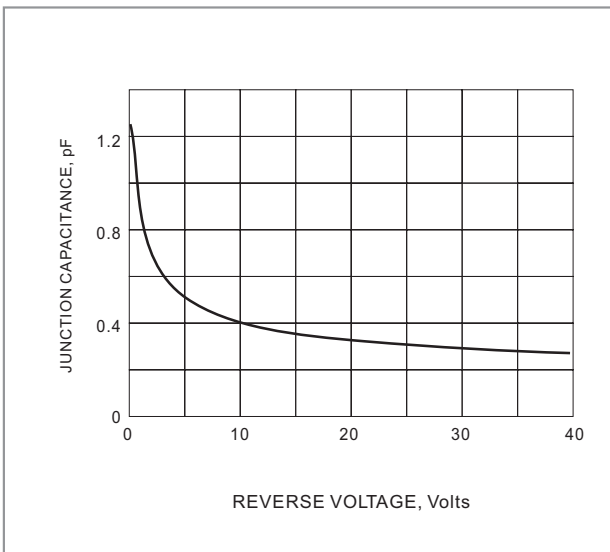


FIG. 3 TYPICAL JUNCTION CAPACITANCE

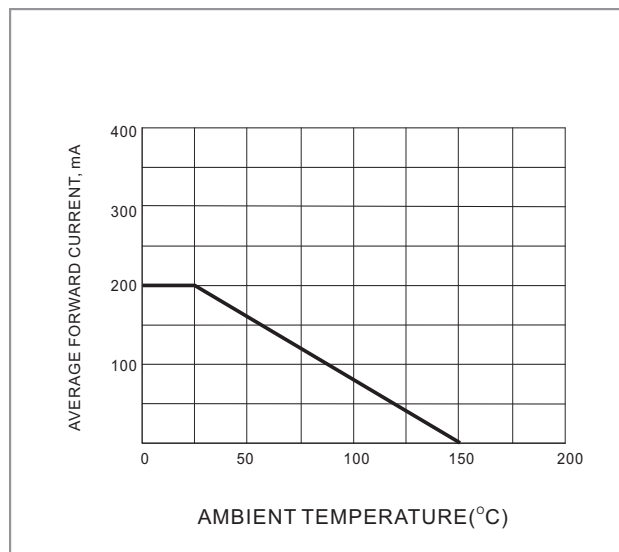
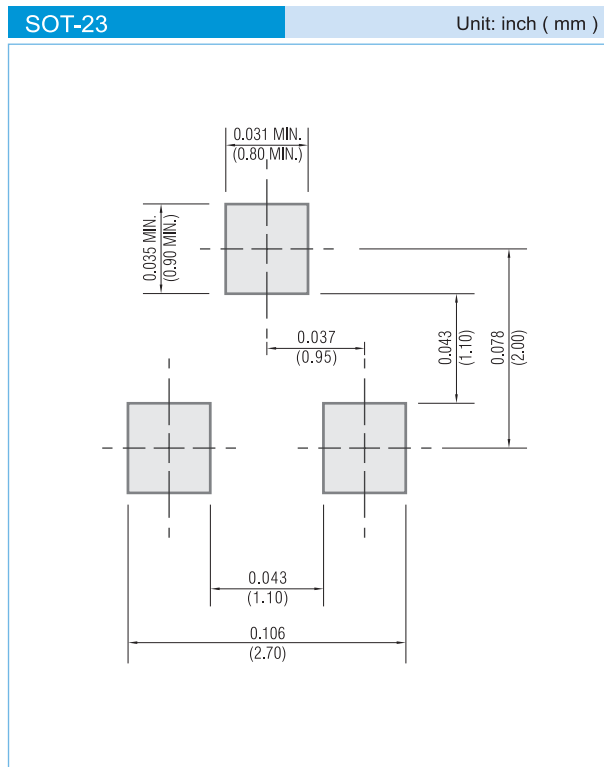


FIG. 4 FORWARD CURRENT DERATING



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

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