



# BAS70W SERIES

## SURFACE MOUNT SCHOTTKY DIODES

**VOLTAGE** 70 Volts **CURRENT** 0.2 Amperes

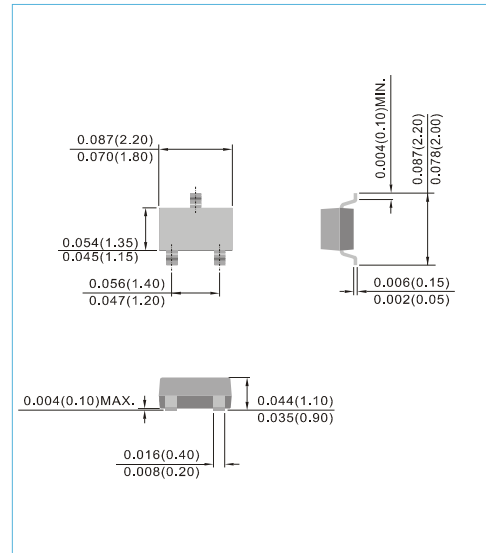
**SOT-323** Unit : inch(mm)

### FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion  
Electrical identical standard JEDEC
- High conductor
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: SOT-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0002 ounces, 0.005 grams

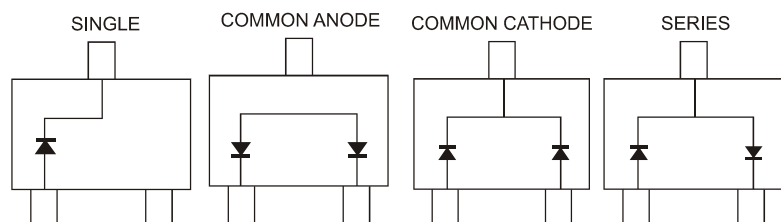


### ABSOLUTE RATINGS (TA=25°C unless otherwise noted)

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 (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	BAS70W	BAS70AW	BAS70CW	BAS70SW	UNITS
Marking Code	-	A70	A72	A73	A74	-
Power Dissipation	$P_{TOT}$	225				mW
Thermal Resistance , Junction to Ambient	$R_{\theta JA}$	556				°CW
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	-





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## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	V <sub>(BR)</sub>	I <sub>R</sub> =10 uA	70	--	--	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =70 V V <sub>R</sub> =50 V	--	--	10 0.1	uA
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =1.0mA I <sub>F</sub> =10mA I <sub>F</sub> =15mA	--	--	0.41 0.75 1.00	V
Junction Capacitance	C <sub>J</sub>	V <sub>R</sub> =0V, f=1.0MHz	--	--	2.0	pF

### RATING AND CHARACTERISTIC CURVES

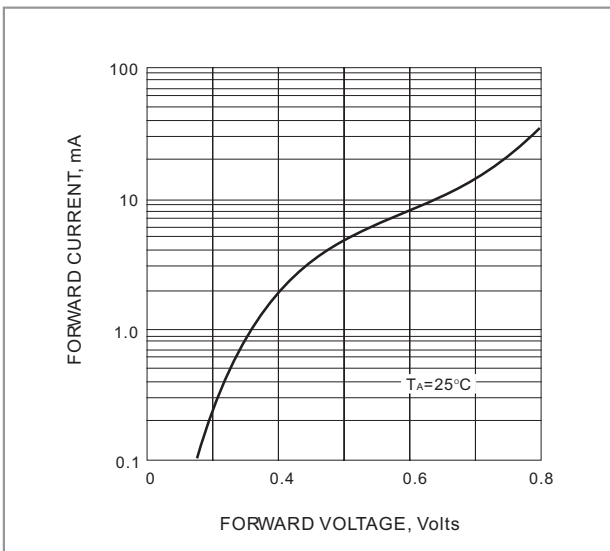


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

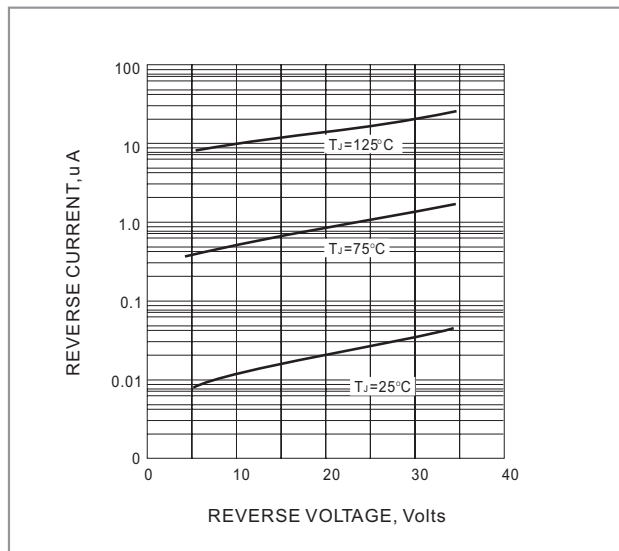


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

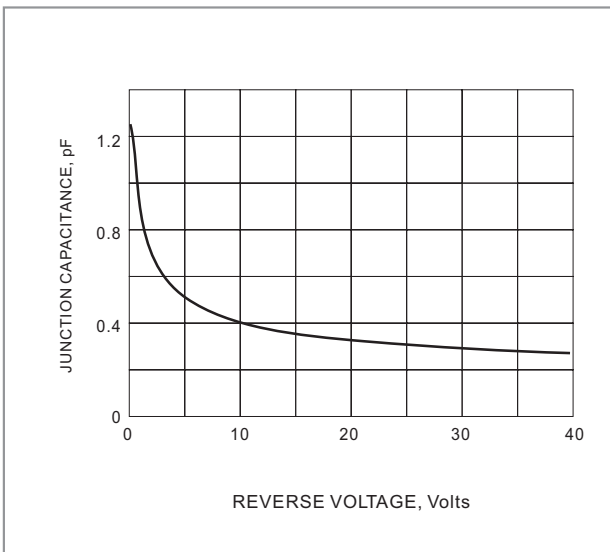


FIG. 3 TYPICAL JUNCTION CAPACITANCE

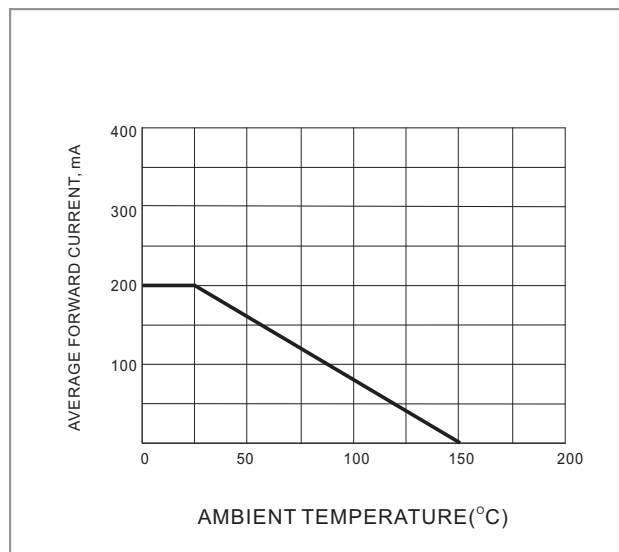
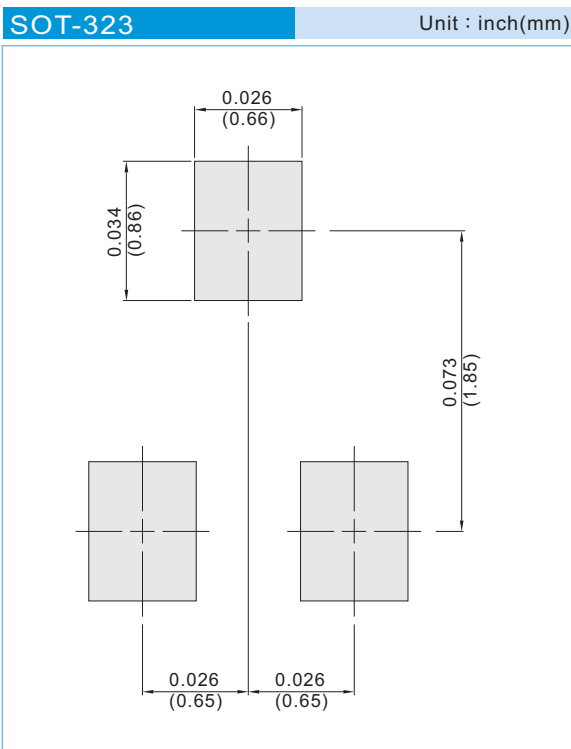


FIG. 4 FORWARD CURRENT DERATING



# BAS70W 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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