

BAS70W SERIES

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 70 Volt **CURRENT** 0.2 Ampere

FEATURES

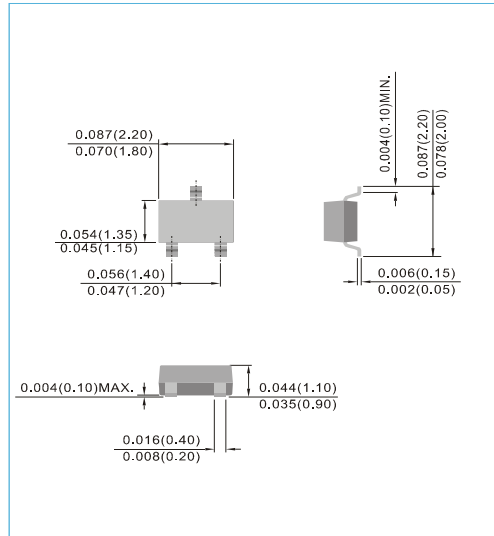
- Fast switching speed
- Surface mount package ideally suited for automatic insertion
Electrical identical standard JEDEC
- High conductor
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

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

SOT-323

Unit : inch(mm)

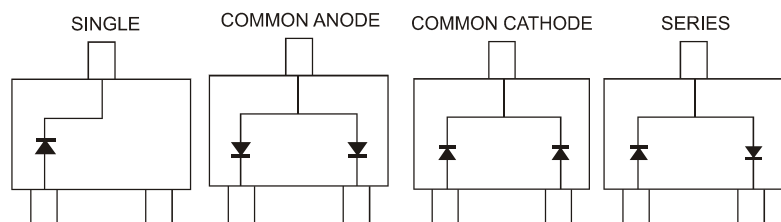


ABSOLUTE RATINGS (TA=25°C unless otherwise noted)

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_{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	-



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ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	V _(BR)	I _R =10 μA	70	--	--	V
Reverse Current	I _R	V _R =70 V V _R =50 V	--	--	10 0.1	μA
Forward Voltage	V _F	I _F =1.0mA I _F =10mA I _F =15mA	--	--	0.41 0.75 1.00	V
Junction Capacitance	C _J	V _R =0V, f=1.0MHz	--	--	2.0	pF

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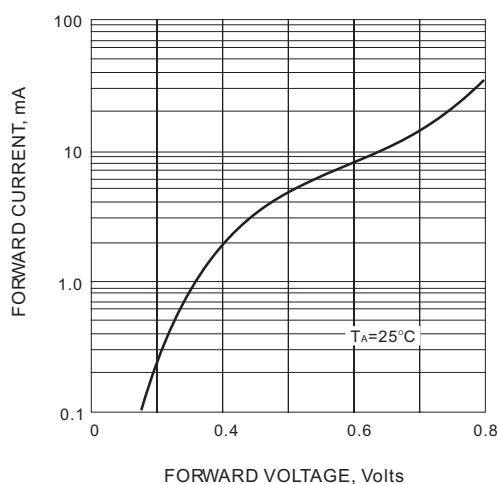


FIG. 1 TYPICAL FORWARD CHARACTERISTIC

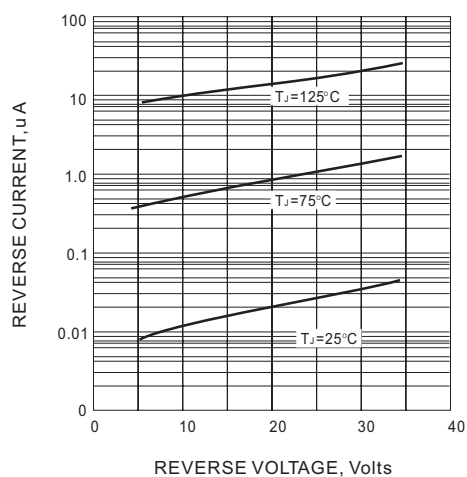


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

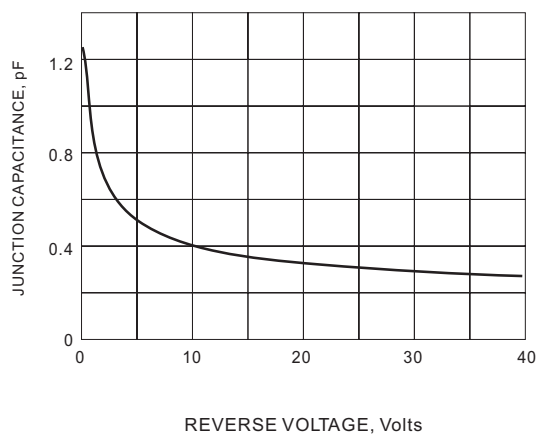


FIG. 3 TYPICAL JUNCTION CAPACITANCE

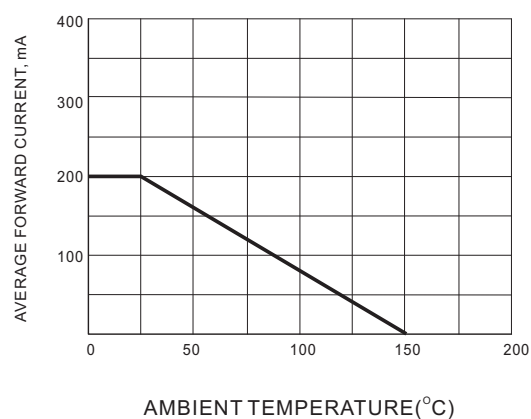


FIG. 4 FORWARD CURRENT DERATING

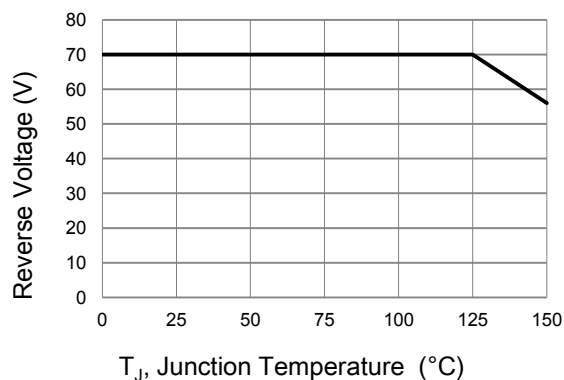


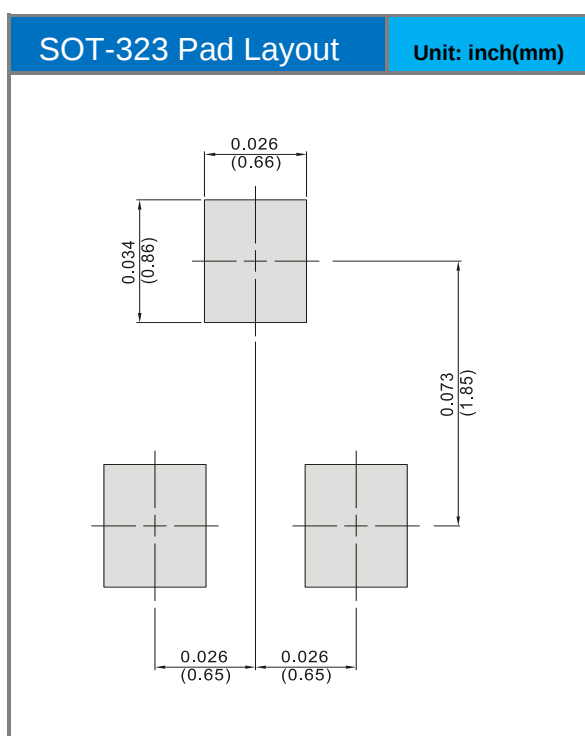
Fig.5 Operating Temperature Derating Curve

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
BAS70W	SOT-323	3K pcs / 7" reel	A70
BAS70W	SOT-323	12K pcs / 13" reel	A70
BAS70AW	SOT-323	3K pcs / 7" reel	A72
BAS70AW	SOT-323	12K pcs / 13" reel	A72
BAS70CW	SOT-323	3K pcs / 7" reel	A73
BAS70CW	SOT-323	12K pcs / 13" reel	A73
BAS70SW	SOT-323	3K pcs / 7" reel	A74
BAS70SW	SOT-323	12K pcs / 13" reel	A74

Mounting Pad Layout



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