



BAS70W SERIES

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 70 Volt **CURRENT** 0.2 Ampere

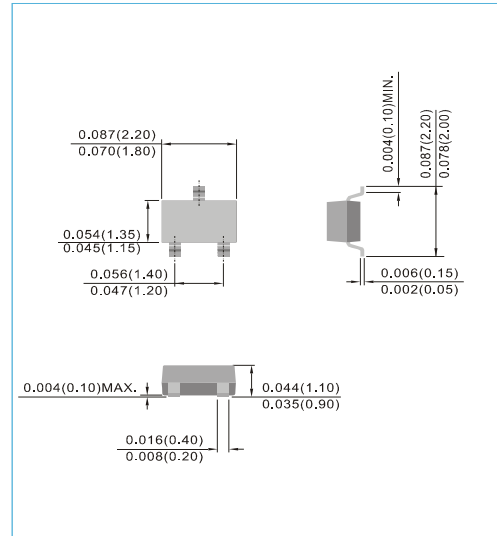
FEATURES

- 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)

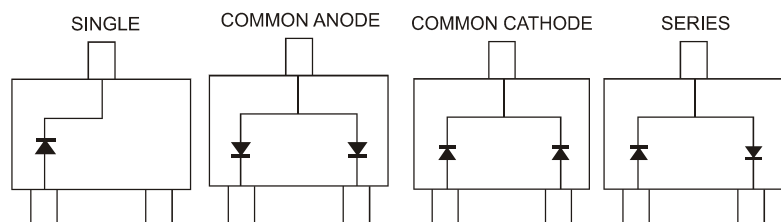


ABSOLUTE RATINGS (TA=25°C unless otherwise noted)

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	$R_{\theta JA}$	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_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	V _(BR)	I _R =10 uA	70	--	--	V
Reverse Current	I _R	V _R =70 V V _R =50 V	--	--	10 0.1	uA
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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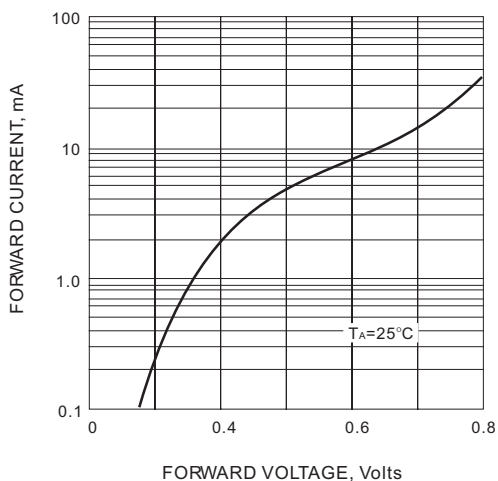


FIG. 1 TYPICAL FORWARD CHARACTERISTIC

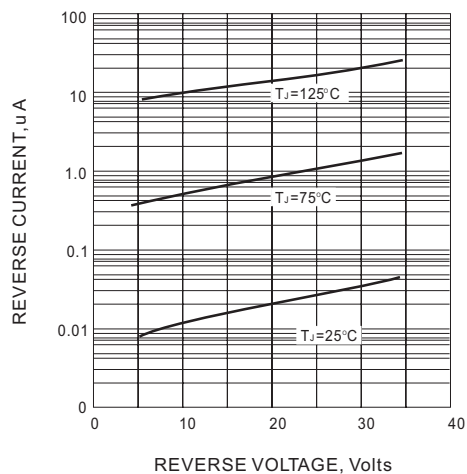


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

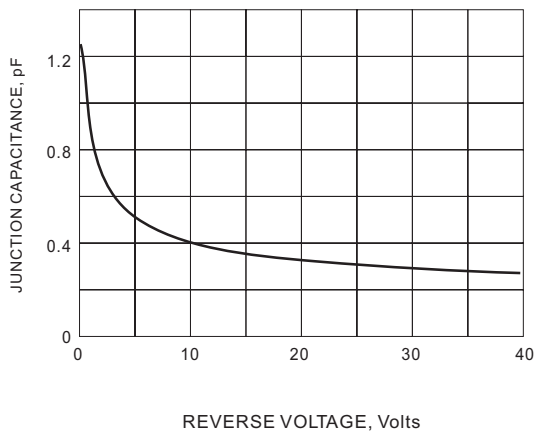


FIG. 3 TYPICAL JUNCTION CAPACITANCE

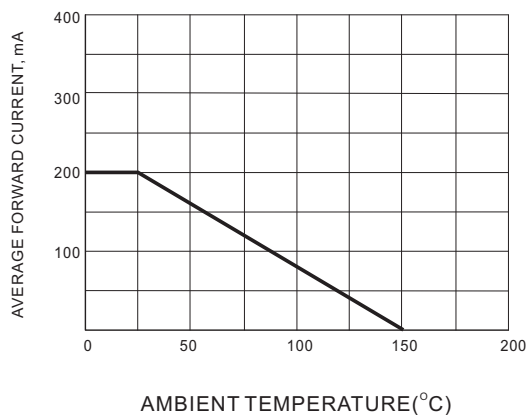


FIG. 4 FORWARD CURRENT DERATING

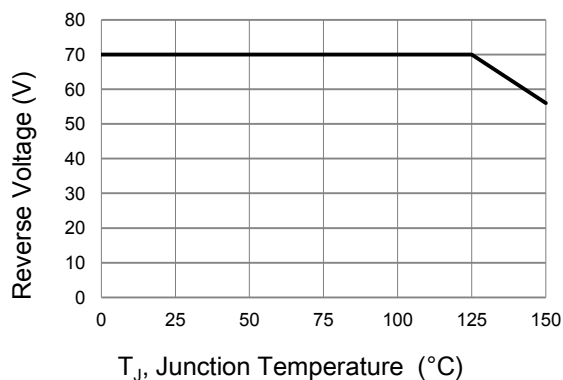
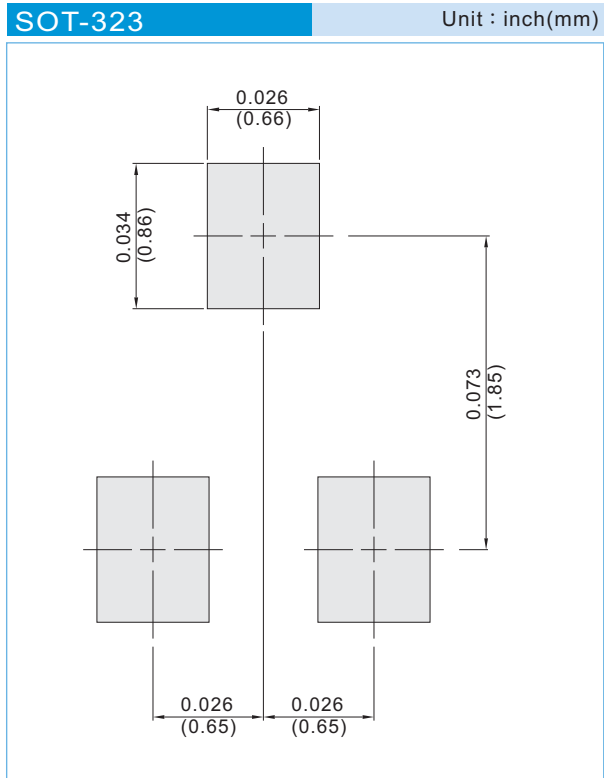


Fig.5 Operating Temperature Derating Curve



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MOUNTING PAD LAYOUT



ORDER INFORMATION

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



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Part No_packing code_Version

BAS70W_R1_00001

BAS70W_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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