

# BAS70WS

## SURFACE MOUNT SCHOTTKY DIODES

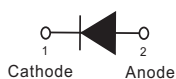
**VOLTAGE** 70 Volt **CURRENT** 0.2 Ampere

### FEATURES

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

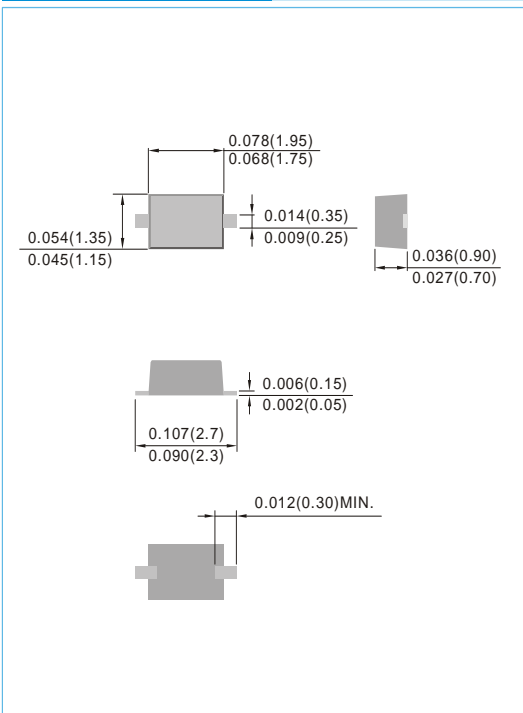
### MECHANICAL DATA

- Case: SOD-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00014 ounces, 0.0041 grams
- Marking: A70



**SOD-323**

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 $T_A=25^\circ\text{C}$	$I_O$	0.2	A
Non-repetitive Peak Forward Surge Current at $t=1\text{ms}$	$I_{FSM}$	4	A

### THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Power Dissipation	$P_{TOT}$	225	mW
Thermal Resistance , Junction to Ambient	$R_{\theta JA}$	556	$^\circ\text{C}/\text{W}$
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature at $T_A=25^\circ\text{C}$	$T_{STG}$	-55 to 150	$^\circ\text{C}$



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## ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=10\ \mu A$	70	-	-	V
Reverse Current	$I_R$	$V_R=70\ V$ $V_R=50\ V$	-	-	10 0.1	$\mu A$
Forward Voltage	$V_F$	$I_F=1mA$ $I_F=10mA$ $I_F=15mA$	-	-	0.41 0.75 1	V
Maximum Junction Capacitance	$C_J$	$V_R=0V, f=1MHz$	-	-	2	pF

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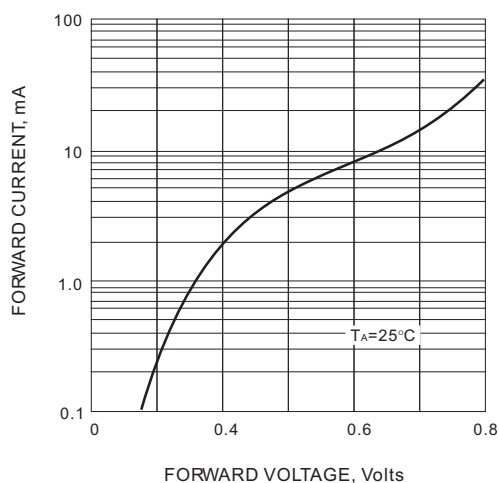


FIG. 1 TYPICAL FORWARD CHARACTERISTIC

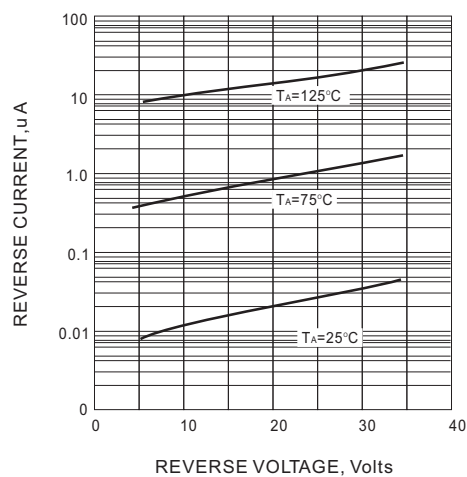


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

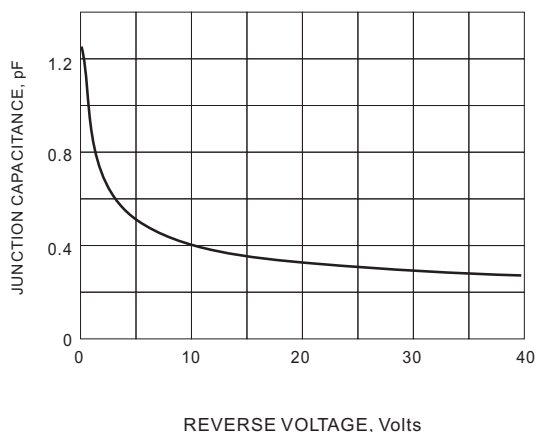


FIG. 3 TYPICAL JUNCTION CAPACITANCE

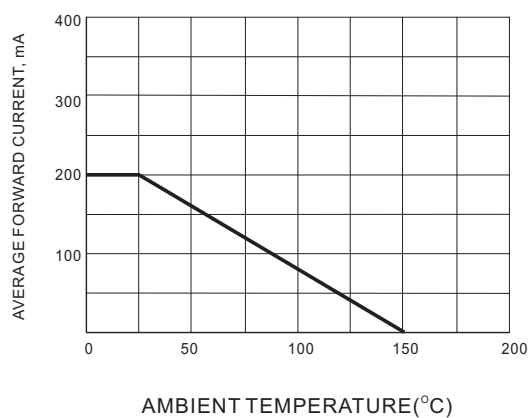


FIG. 4 FORWARD CURRENT DERATING

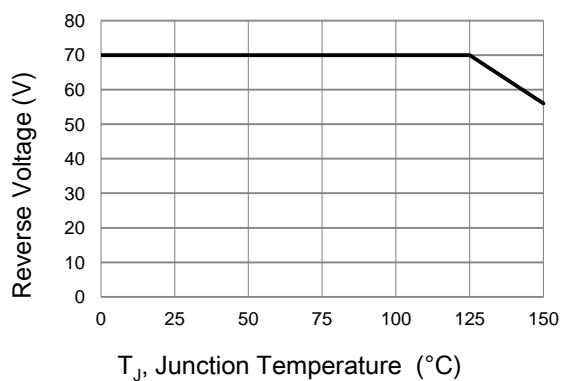


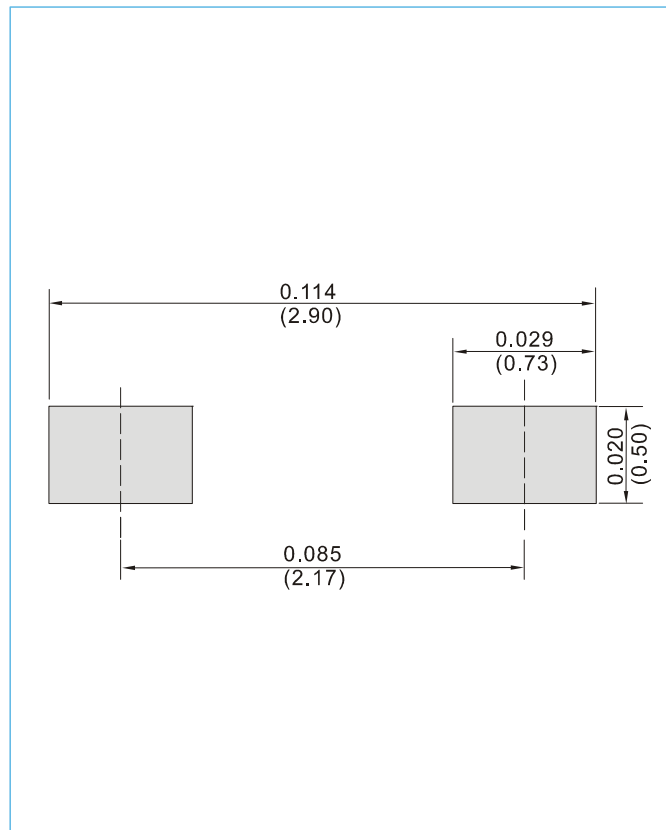
Fig.5 Operating Temperature Derating Curve

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## MOUNTING PAD LAYOUT

SOD-323

Unit : inch(mm)



## ORDER INFORMATION

- Packing information
  - T/R - 12K per 13" plastic Reel
  - T/R - 5K per 7" plastic Reel

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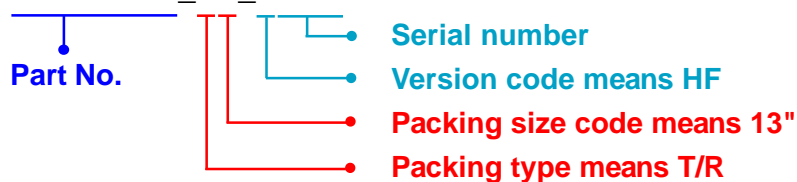
## Part No\_packing code\_Version

BAS70WS\_R1\_00001

BAS70WS\_R2\_00001

For example :

**RB500V-40\_R2\_00001**



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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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