



BAS40WS

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 40 Volt **CURRENT** 0.2 Ampere

SOD-323

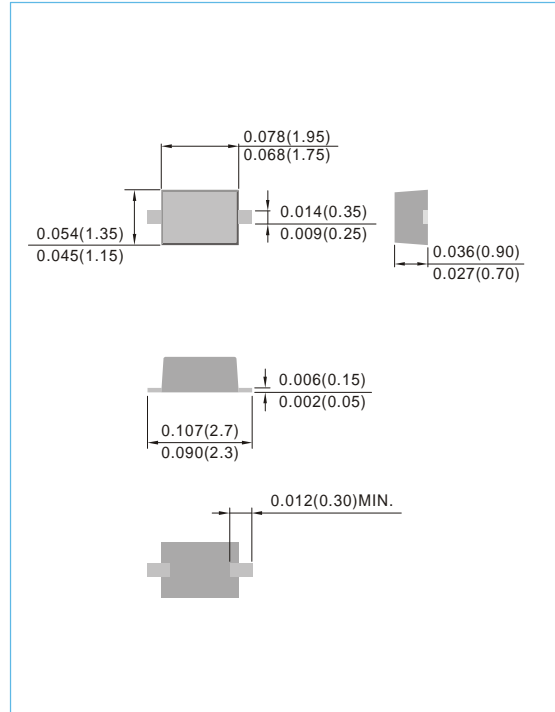
Unit : inch(mm)

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
Electrical identical standard JEDEC
- High conductor
- Lead free in 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
- Polarity: Color band denotes cathode end
- Marking: S40



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

PARAMETER	SYMBOL	LIMITS	UNITS
Reverse Voltage	V _R	40	V
Peak Reverse Voltage	V _{RRM}	40	V
Average Rectified Current at Temp=25°C	I _F	0.2	A
Non-repetitive Peak Forward Surge Current at t=1ms	I _{FSM}	4	A

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

PARAMETER	SYMBOL	VALUE	UNITS
Power Dissipation	P _{TOT}	225	mW
Thermal Resistance , Junction to Ambient	R _{θJA}	556	°C/W
Operating Junction Temperature and Storage Temperature	T _J , T _{STG}	-55 to 150	°C



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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 =10μA	40	--	--	V
Reverse Current	I _R	V _R =25 V V _R =40 V	--	--	1.0 10	μA
Forward Voltage	V _F	I _F =1.0mA I _F =10mA I _F =40mA	--	--	0.38 0.50 1.00	V
Total Capacitance	C _T	V _R =0V, f=1.0MHz	--	--	5.0	pF



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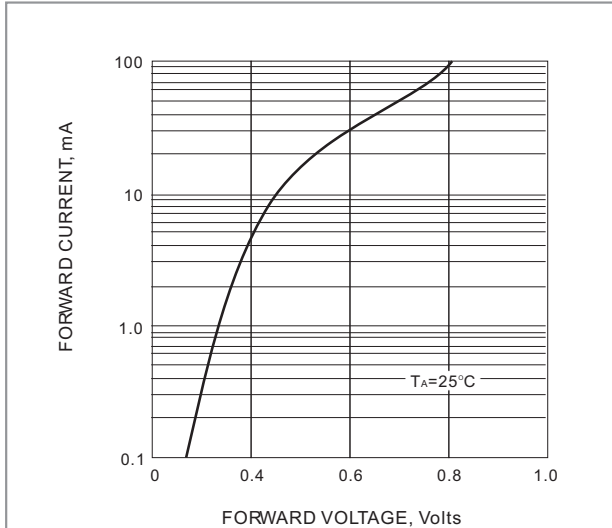


FIG. 1 TYPICAL FORWARD CHARACTERISTIC

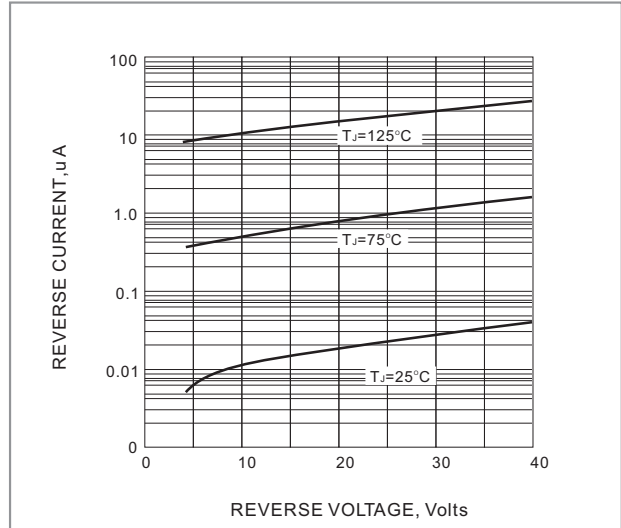


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

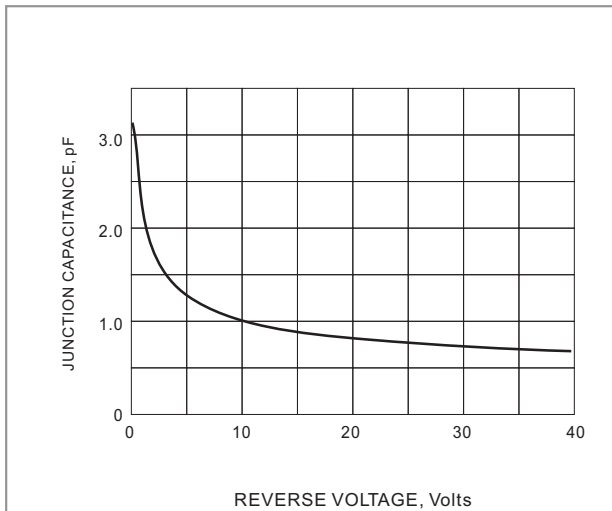


FIG. 3 TYPICAL JUNCTION CAPACITANCE

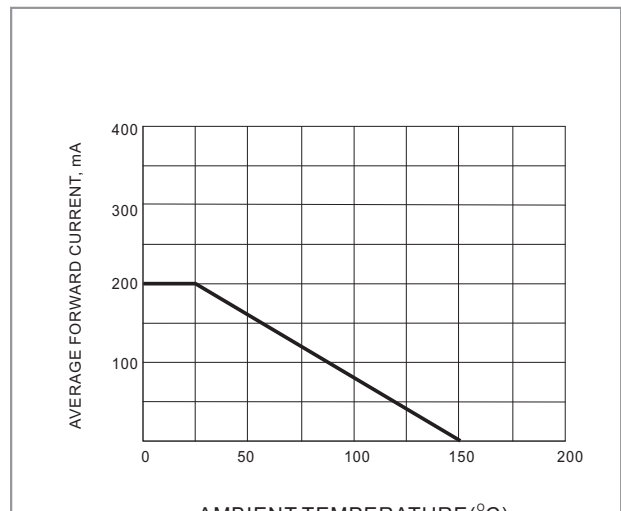


FIG. 4 FORWARD CURRENT DERATING

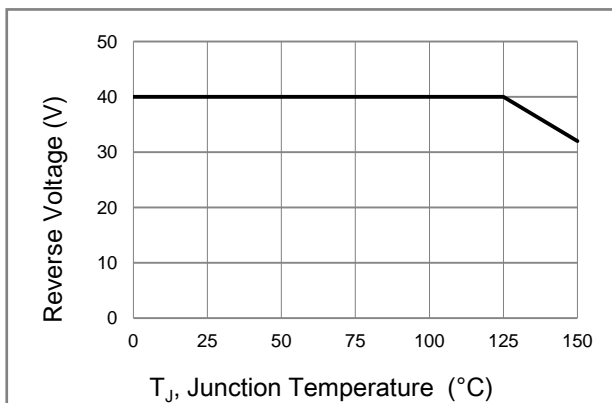
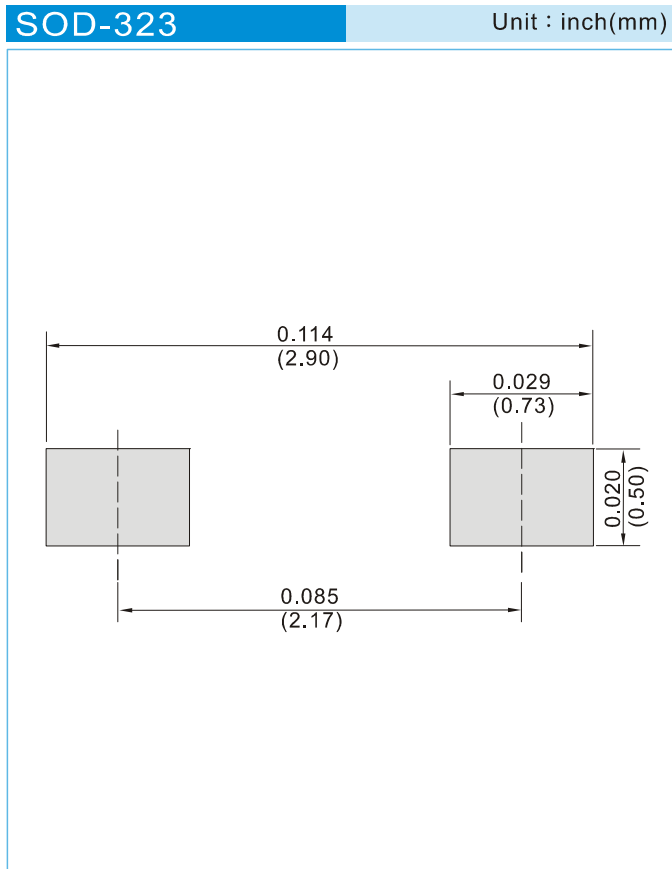


Fig.5 Operating Temperature Derating Curve



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MOUNTING PAD LAYOUT



ORDER INFORMATION

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



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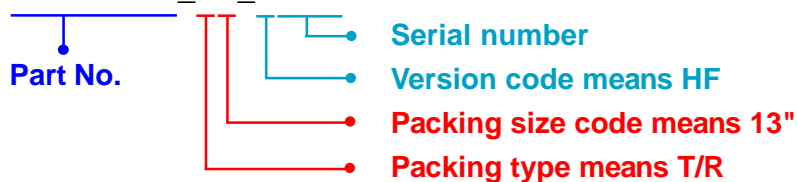
Part No_packing code_Version

BAS40WS_R1_00001

BAS40WS_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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