



BAS40WS

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 40 Volts **CURRENT** 0.2 Amperes

SOD-323

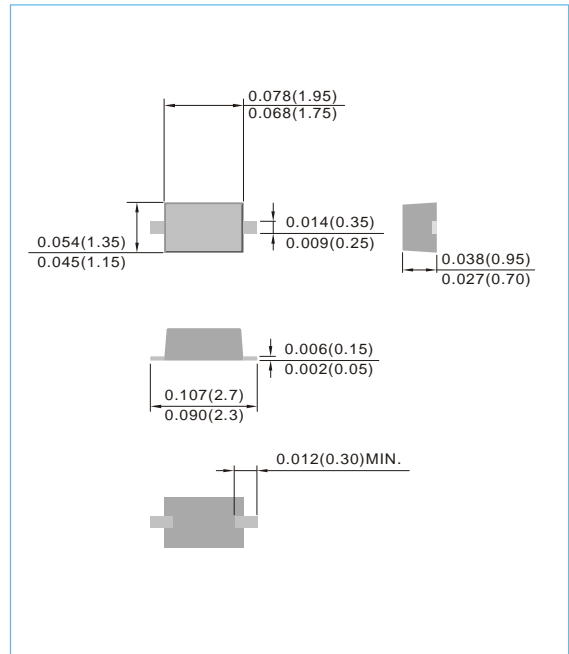
Unit : inch(mm)

FEATURES

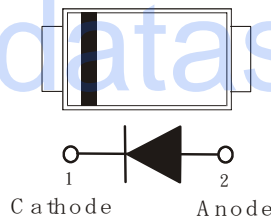
- Fast switching speed
- Surface mount package ideally suited for automatic insertion
Electrical identical standard JEDEC
- High conductor
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00014 ounces, 0.0041 grams
- Marking: S40
- Polarity: Color band denotes cathode end



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

PARAMETER	Symbol	BAS40WS	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

RATING AND CHARACTERISTIC CURVES

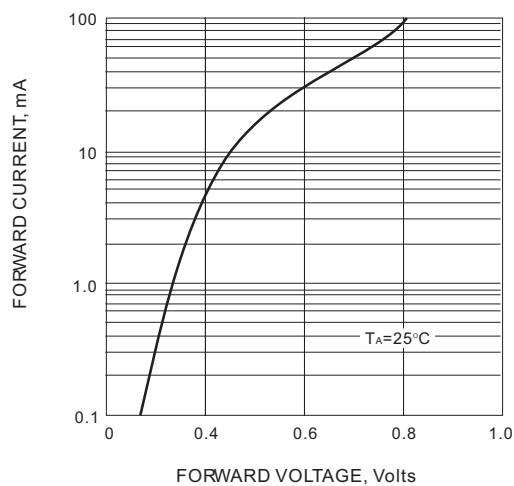


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

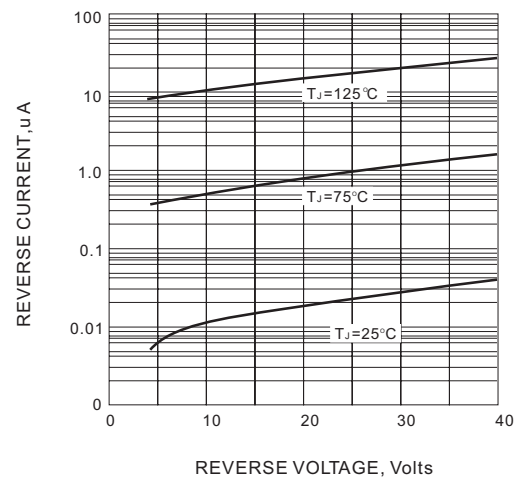


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

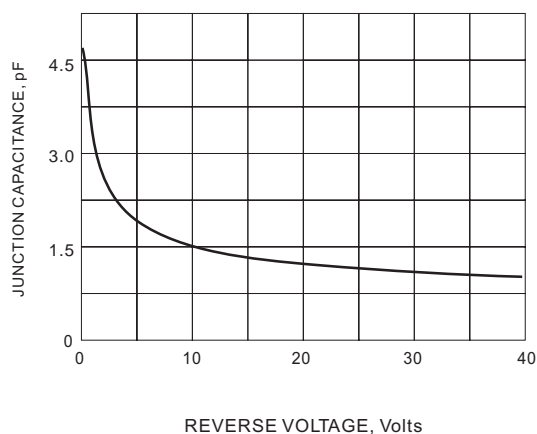


FIG. 3 TYPICAL JUNCTION CAPACITANCE

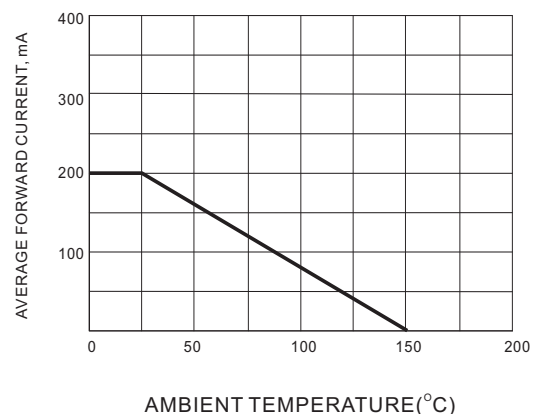
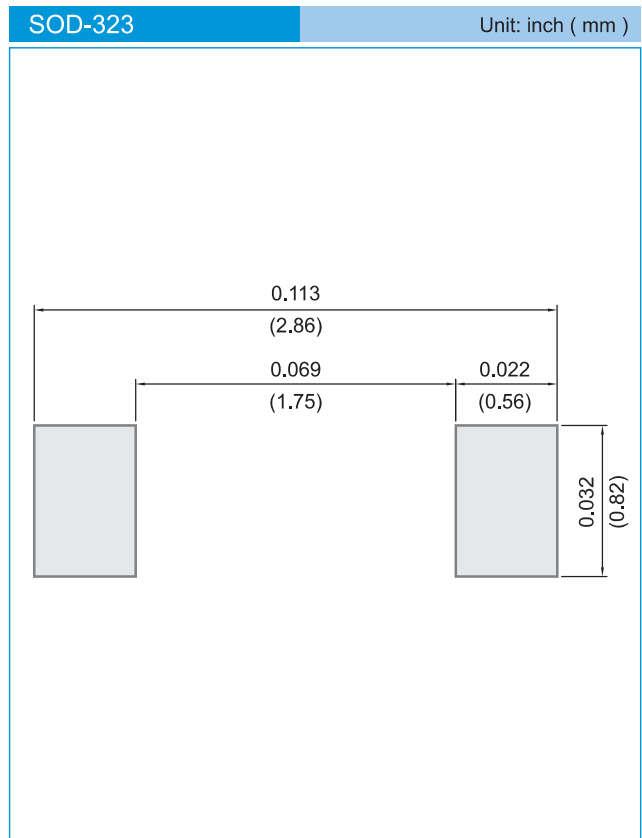


FIG. 4 FORWARD CURRENT DERATING



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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

LEGAL STATEMENT

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