

BAS40WS

SURFACE MOUNT SCHOTTKY DIODES

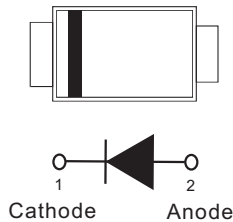
VOLTAGE 40 Volt **CURRENT** 0.2 Ampere

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)

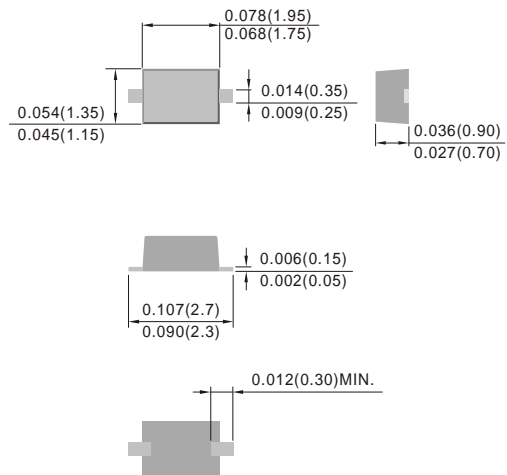
MECHANICAL DATA

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



SOD-323

Unit : inch(mm)



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

BAS40WS

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

BAS40WS

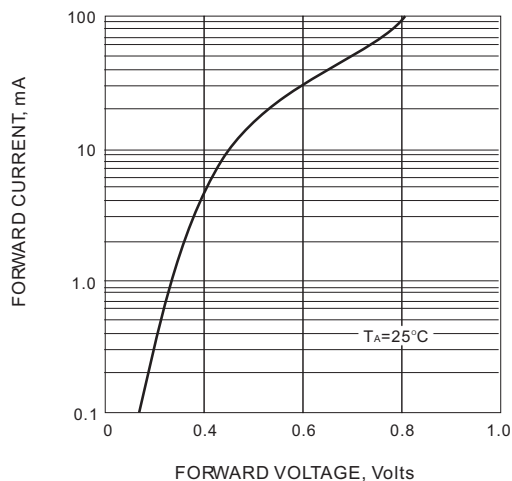


FIG. 1 TYPICAL FORWARD CHARACTERISTIC

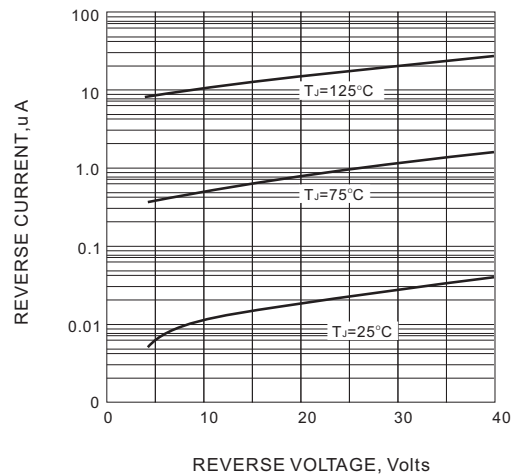


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

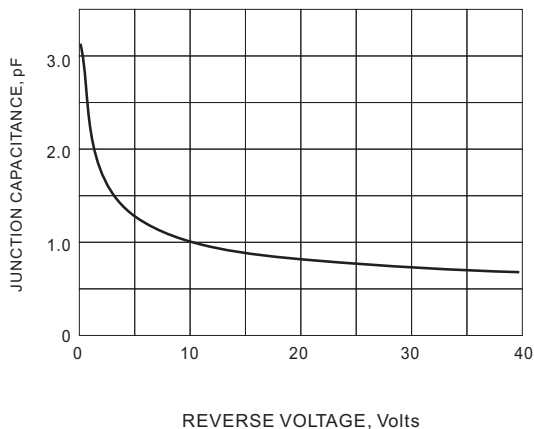


FIG. 3 TYPICAL JUNCTION CAPACITANCE

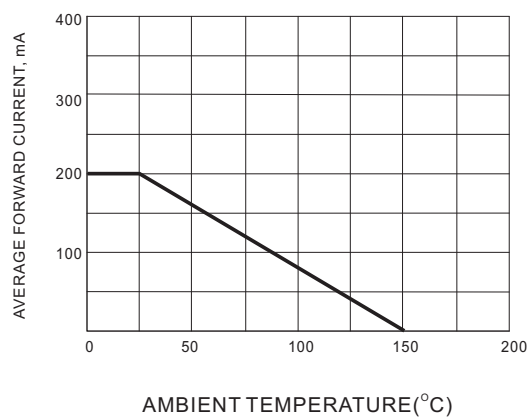


FIG. 4 FORWARD CURRENT DERATING

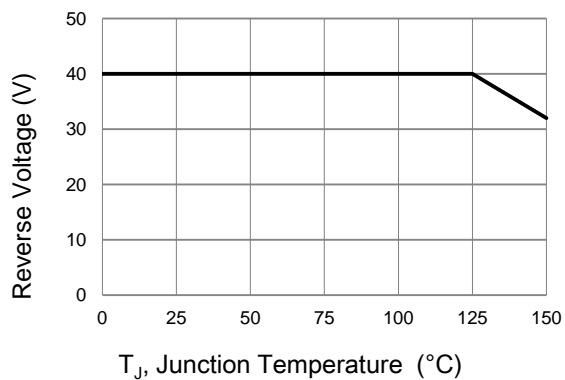


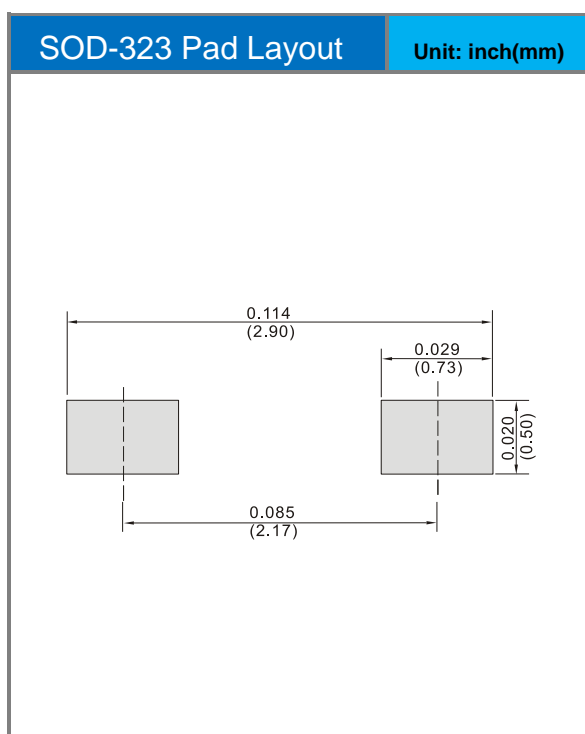
Fig.5 Operating Temperature Derating Curve

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
BAS40WS	SOD-323	5K pcs / 7" reel	S40
BAS40WS	SOD-323	12K pcs / 13" reel	S40

Mounting Pad Layout



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