



SB130AS

SCHOTTKY BARRIER RECTIFIER

Voltage

30 V

Current

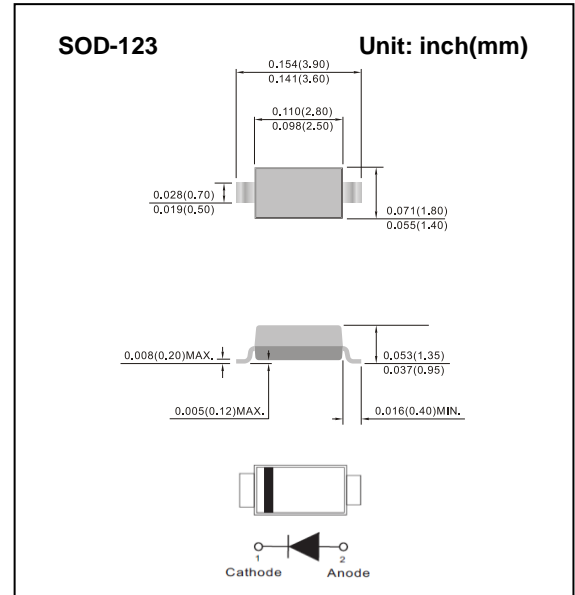
1 A

Features

- Fast switching speed
- Surface mount package
- 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: SOD-123 Molded Plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Weight: 0.00037 ounces, 0.01 grams
- Marking: GS



Maximum Ratings And Electrical Characteristics (T_A=25° C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	30	V
Maximum rms voltage	V _{RMS}	21	V
Maximum dc blocking voltage	V _R	30	V
Maximum average forward rectified current	I _{F(AV)}	1	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30	A
Maximum forward voltage at 1A	V _F	0.48	V
Maximum dc reverse current at T _J =25°C	I _R	45	μA
Typical thermal resistance	(Note 2) R _{θJL}	200	°C/W
	(Note 1) R _{θJA}	380	
Maximum thermal resistance	(Note 1) R _{θJA}	510	°C/W
Maximum power dissipation	(Note 1) P _D	0.2	W
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +125	°C

Note : 1. Mounted on a FR4 PCB, single-sided copper, mini pad.

2. Mounted on FR-4 substrate 10cm x 10cm, 2 oz. copper, single-sided, pad layout 0.97 * 1.22 mm



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TYPICAL CHARACTERISTIC CURVES

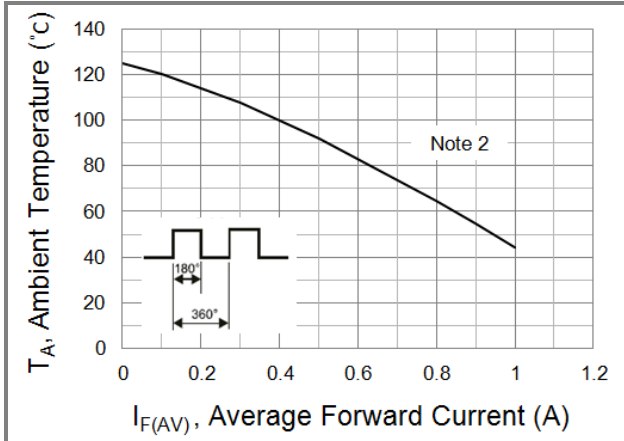


Fig.1 Forward Current Derating Curve

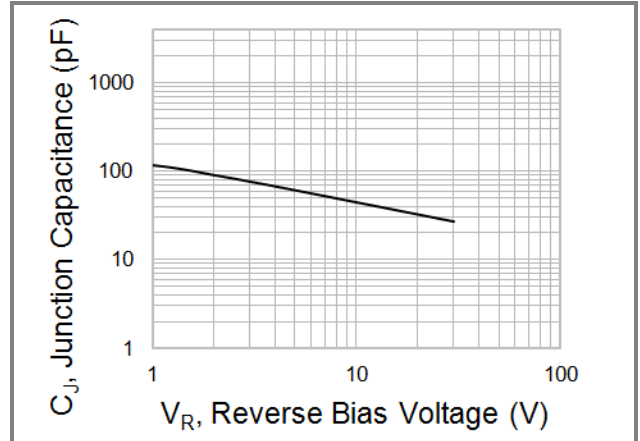


Fig.2 Typical Junction Capacitance

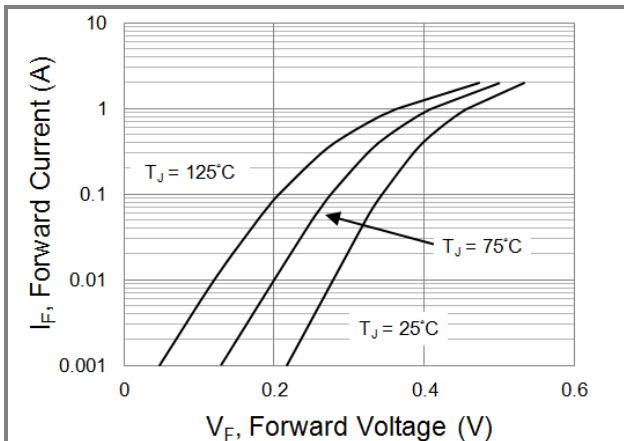


Fig.3 Typical Reverse Characteristics

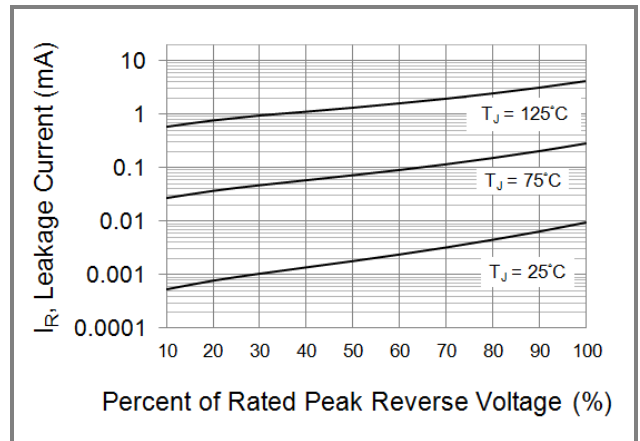


Fig.4 Typical Forward Characteristics

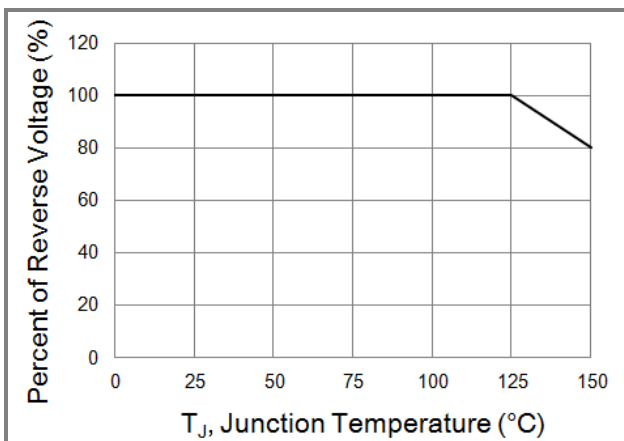


Fig.5 Operating Temperature Derating Curve

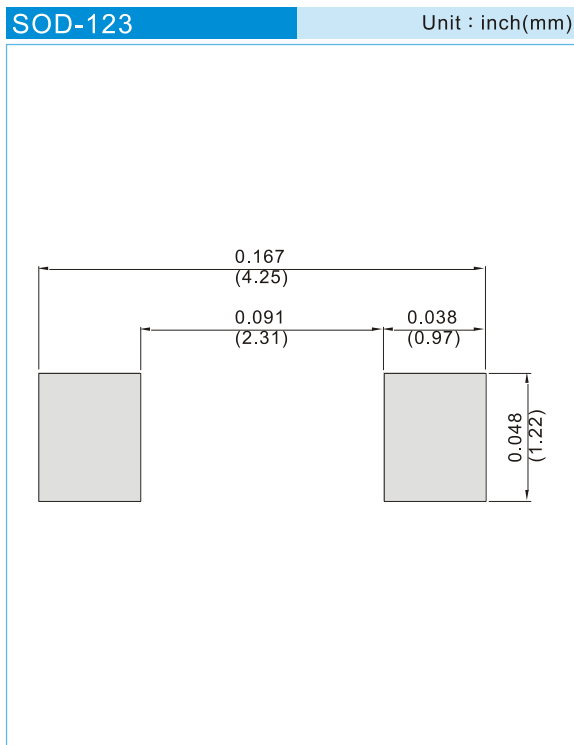


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Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SB130AS_R1_00001	SOD-123	3K pcs / 7" reel	GS	Halogen free
SB130AS_R2_00001	SOD-123	10K pcs / 13" reel	GS	Halogen free

Mounting Pad Layout





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