

SB130AS

SCHOTTKY BARRIER RECTIFIER

Voltage

30 V

Current

1 A

Features

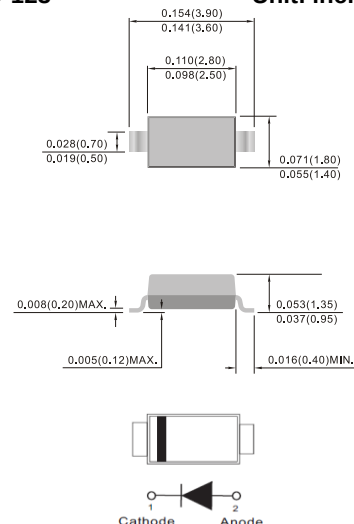
- Fast switching speed
- Surface mount package
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

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

SOD-123

Unit: inch(mm)



Maximum Ratings And Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

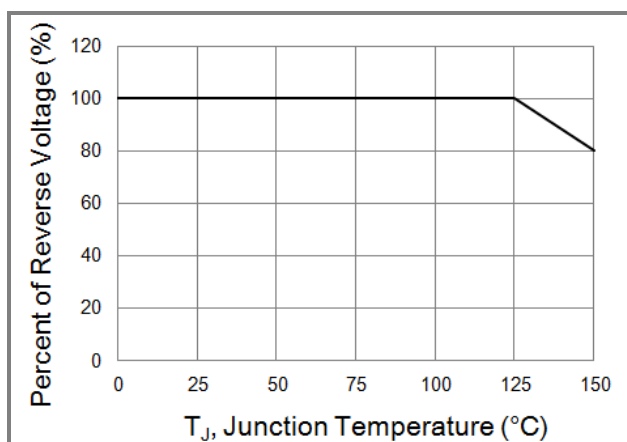
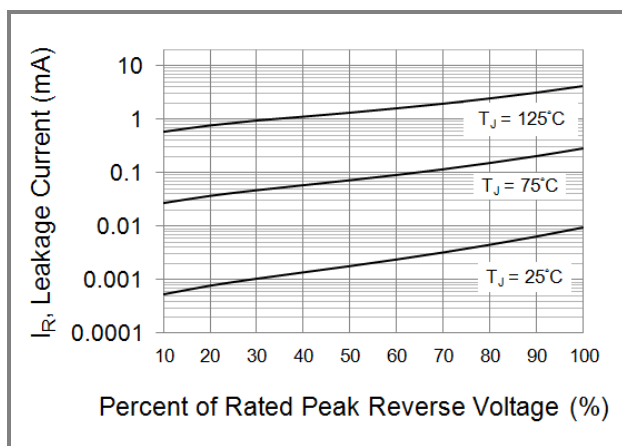
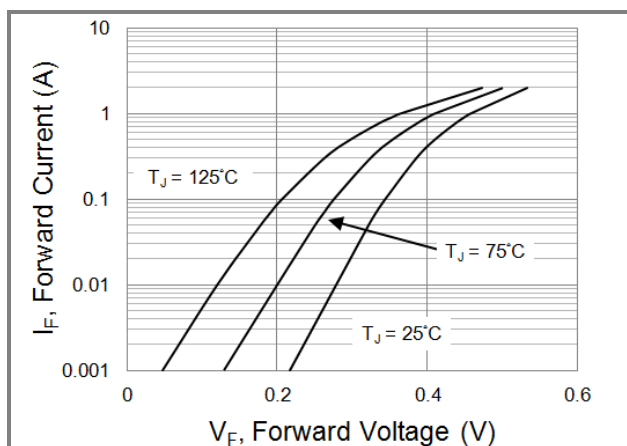
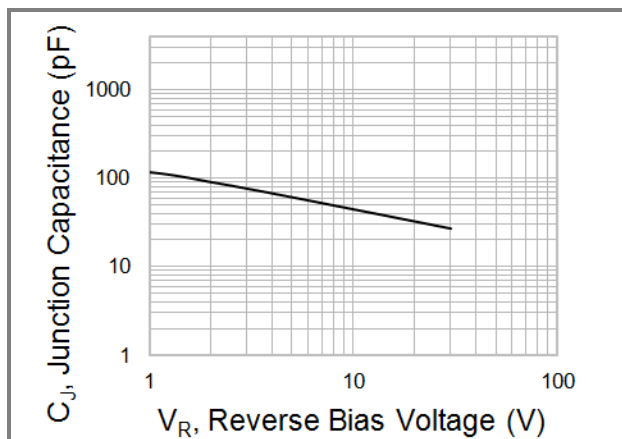
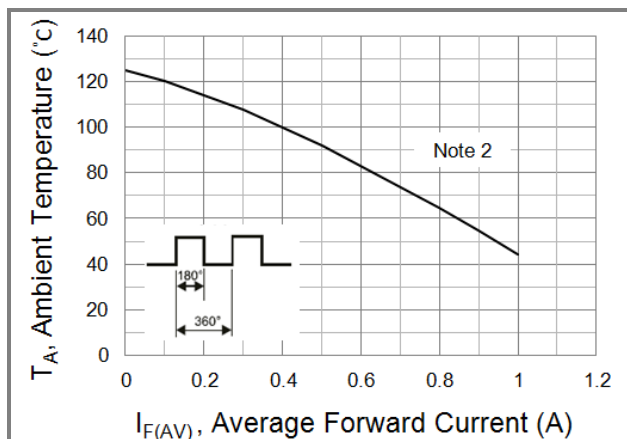
PARAMETER		SYMBOL	LIMIT	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	30	V
Maximum rms voltage		V_{RMS}	21	V
Maximum dc blocking voltage		V_R	30	V
Maximum average forward rectified current		$I_{F(AV)}$	1	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	30	A
Maximum forward voltage at 1A		V_F	0.48	V
Maximum dc reverse current at $T_J=25^{\circ}\text{C}$		I_R	45	μA
Typical thermal resistance	(Note 2)	$R_{\theta JL}$	200	$^{\circ}\text{C/W}$
	(Note 1)	$R_{\theta JA}$	380	
Maximum thermal resistance	(Note 1)	$R_{\theta JA}$	510	$^{\circ}\text{C/W}$
Maximum power dissipation	(Note 1)	P_D	0.2	W
Operating junction and storage temperature range		T_J, T_{STG}	-55 to +125	$^{\circ}\text{C}$

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

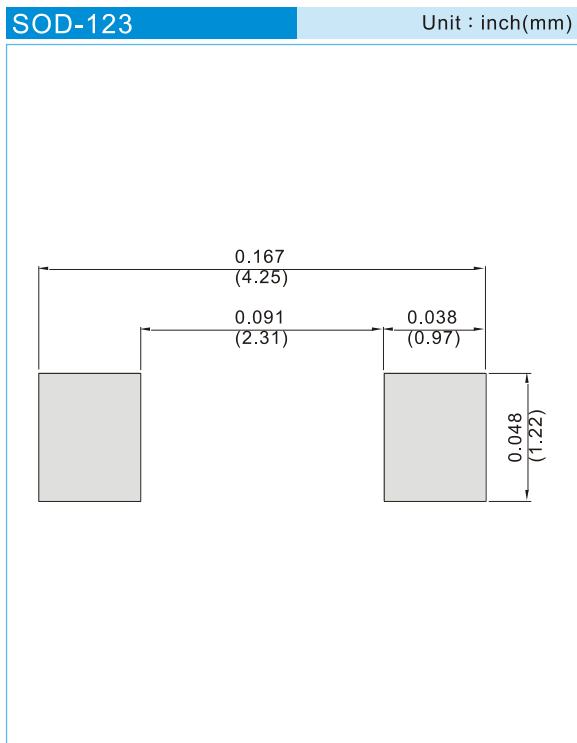


SB130AS

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





SB130AS

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