



SCHOTTKY BARRIER RECTIFIER

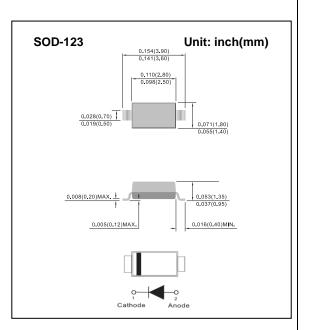
Voltage 30 V Current 1 A

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		Vrrm	30	V
Maximum rms voltage	VRMS	21	V	
Maximum dc blocking voltage	VR	30	V	
Maximum average forward rectified current		I F(AV)	1	Α
Peak forward surge current: 8.3ms single half sine- wave superimposed on rated load		İFSM	30	А
Maximum forward voltage at 1A		VF	0.48	V
Maximum dc reverse current at T _J =25°C		lR	45	μΑ
Typical thermal resistance	(Note 2)	$R_{ heta JL}$	200	°C/W
	(Note 1)	$R_{ heta JA}$	380	
Maximum thermal resistance	(Note 1)	$R_{\theta JA}$	510	°C/W
Maximum power dissipation	(Note 1)	Po	0.2	W
Operating junction and storage temperature range		Т _J ,Тsтg	-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

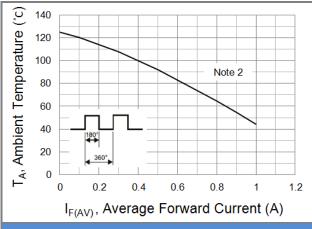
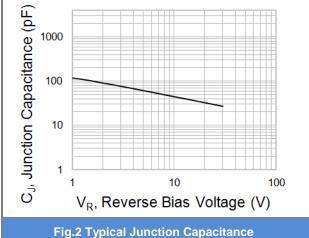
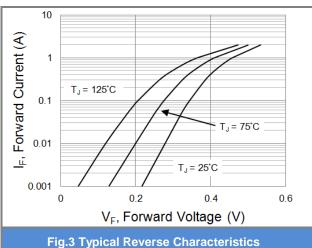


Fig.1 Forward Current Derating Curve





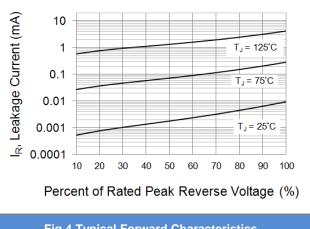


Fig.4 Typical Forward Characteristics

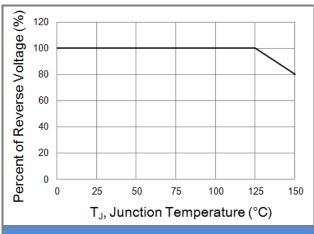


Fig.5 Operating Temperature Derating Curve

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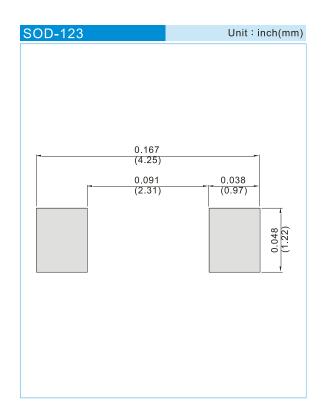




Part No Packing Code Version

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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