



SB130AS

SCHOTTKY BARRIER RECTIFIER

Voltage

30 V

Current

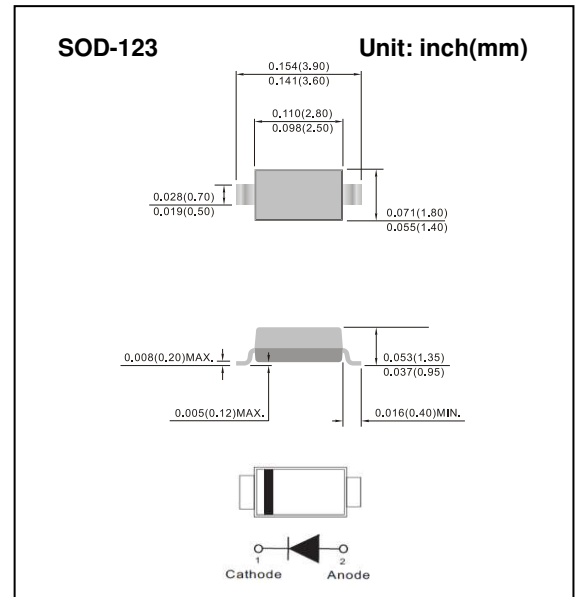
1 A

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



SB130AS

TYPICAL CHARACTERISTIC CURVES

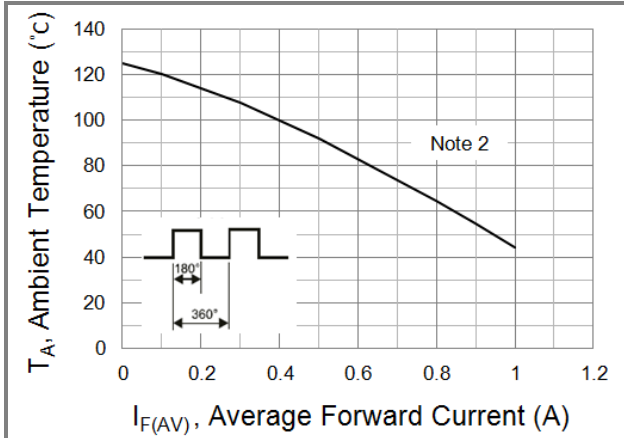


Fig.1 Forward Current Derating Curve

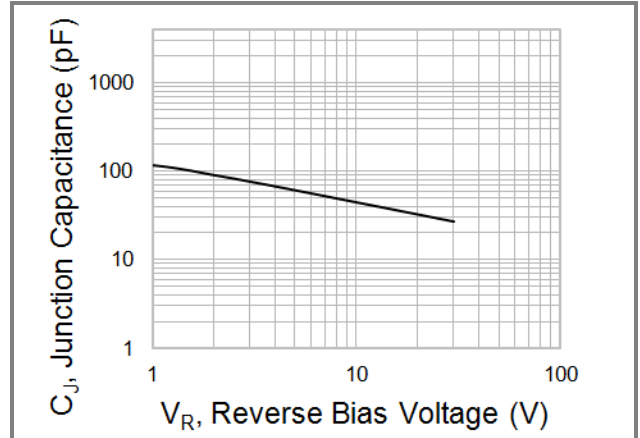


Fig.2 Typical Junction Capacitance

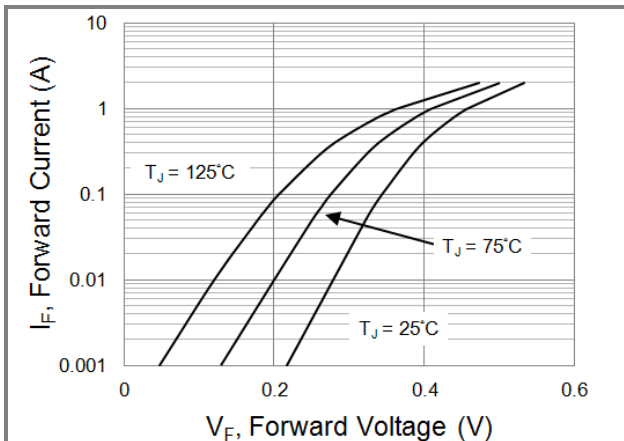


Fig.3 Typical Reverse Characteristics

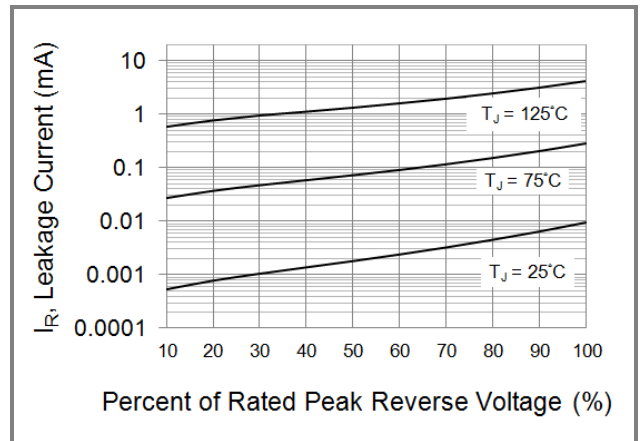


Fig.4 Typical Forward Characteristics

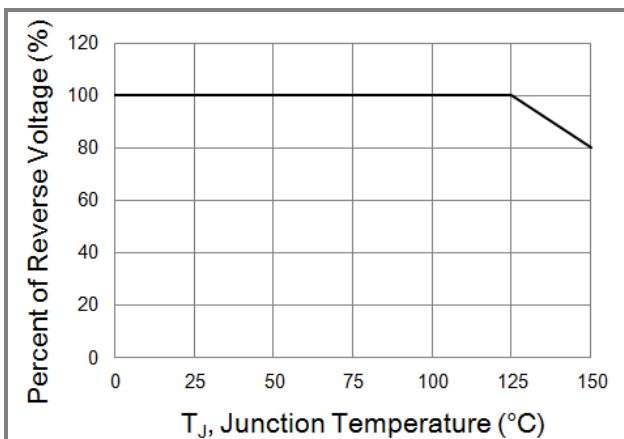


Fig.5 Operating Temperature Derating Curve

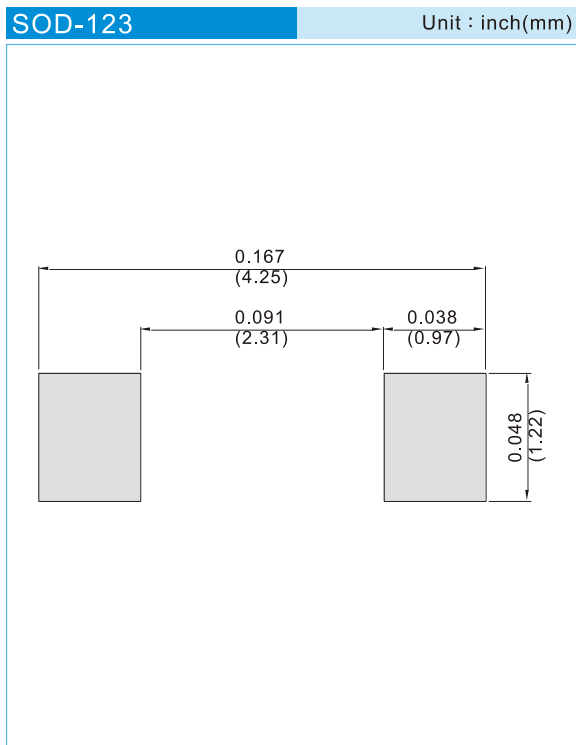


SB130AS

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

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.