

## SD103AW~SD103CW

### SURFACE MOUNT SCHOTTKY BARRIER

**VOLTAGE** 20 to 40 Volt **CURRENT** 0.35 Ampere

**SOD-123**

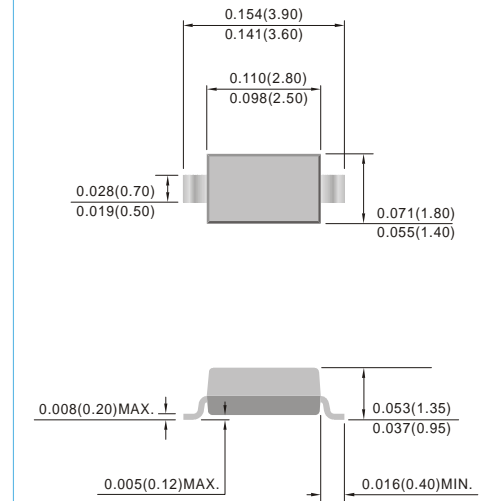
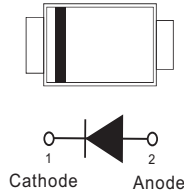
Unit : inch(mm)

#### FEATURES

- Low turn-on voltage
- Fast switching
- PN Junction Guard Ring for Transient and ESD Protection.
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

#### MECHANICAL DATA

- Case: SOD-123, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0004 ounces, 0.01 grams
- Polarity: Color band cathode



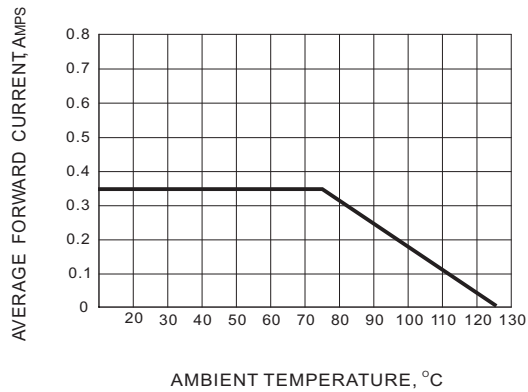
#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. For capacitive load, derate current by 20%.

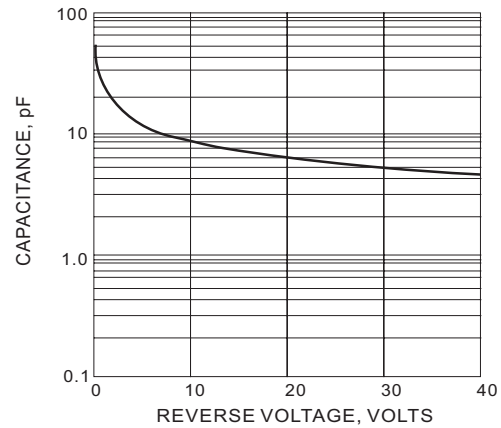
Parameter	Symbol	SD103AW	SD103BW	SD103CW	Units
Marking Code	-	S6	S7	S8	-
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	30	20	V
Maximum RMS Voltage	$V_{RMS}$	28	21	14	V
Maximum DC Blocking Voltage	$V_{DC}$	40	30	20	V
Maximum Average Forward Current at $T_A=75^{\circ}C$	$I_{F(AV)}$	0.35			A
Peak Forward Surge Current at 10μS	$I_{FSM}$	2			A
Maximum Instantaneous Forward Voltage	$V_F$	0.37@0.02A 0.6@0.2A			V
Maximum Reverse Current	$I_R$	5@30V	5@20V	5@10V	uA
Typical Junction Capacitance at $V_R=0V$	$C_J$	50			pF
Maximum Thermal Resistance	$R_{\theta JA}$	300			°C / W
Operating Junction and Storage Temperature Range	$T_J$	-55 to +125			°C

## SD103AW~SD103CW

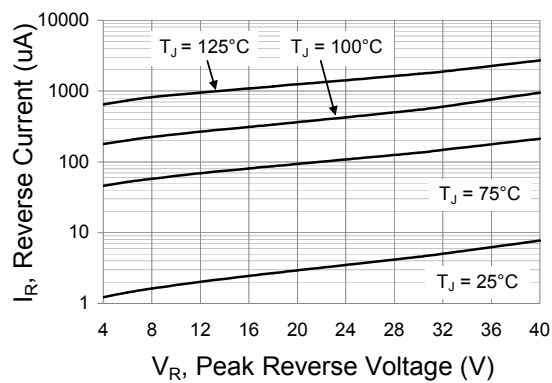
### RATING AND CHARACTERISTIC CURVES



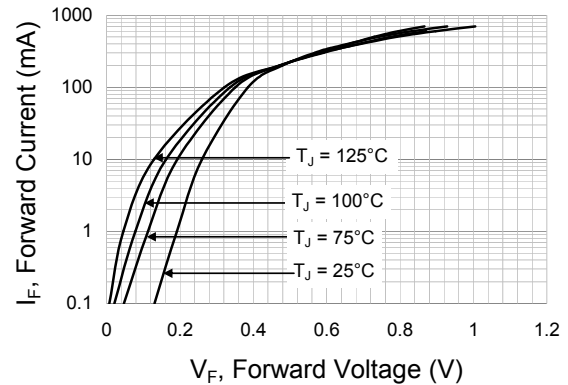
**Fig.1 FORWARD CURRENT DERATING CURVE**



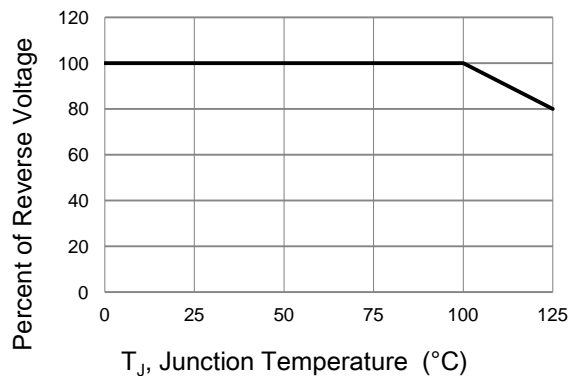
**Fig.2 TYPICAL JUNCTION CAPACITANCE**



**Fig.3 Typical Reverse Characteristics**



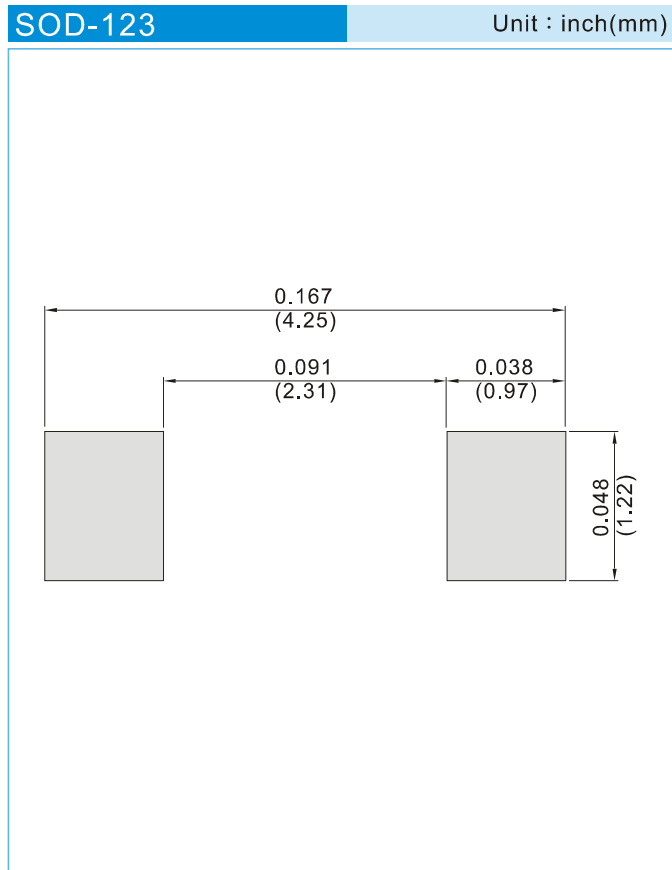
**Fig.4 Typical Forward Characteristics**



**Fig.5 Operating Temperature Derating Curve**

## SD103AW~SD103CW

### MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information
  - T/R - 10K per 13" plastic Reel
  - T/R - 3K per 7" plastic Reel

## SD103AW~SD103CW

### Part No\_packing code\_Version

SD103AW\_R1\_00001

SD103AW\_R2\_00001

For example :

RB500V-40\_R2\_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code XX				Version Code XXXXX		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



## **SD103AW~SD103CW**

---

### **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.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panjit:

[SD103AW\\_R1\\_00001](#) [SD103AW\\_R1\\_10001](#) [SD103AW\\_R2\\_00001](#) [SD103AW\\_R2\\_10001](#)