



#### SURFACE MOUNT SCHOTTKY BARRIER

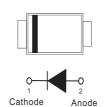
VOLTAGE 20 to 40 Volt CURRENT 0.35 Ampere

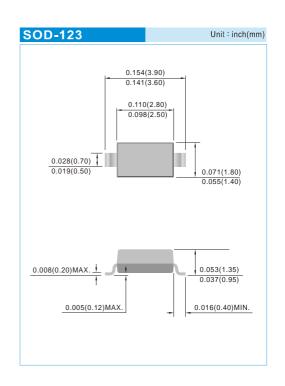
#### **FEATURES**

- · 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 <sub>RRM</sub>	40	30	20	V
Maximum RMS Voltage	V <sub>RMS</sub>	28	21	14	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	30	20	V
Maximum Average Forward Current at T <sub>A</sub> =75°C	I <sub>F(AV)</sub>		А		
Peak Forward Surge Current at 10μS	I <sub>FSM</sub>		А		
Maximum Instantaneous Forward Voltage	V <sub>F</sub>		V		
Maximum Reverse Current	I <sub>R</sub>	5@30V	5@20V	5@10V	uA
Typical Junction Capacitance at V <sub>R</sub> =0V	C <sub>J</sub>		pF		
Maximum Thermal Resistance	$R_{\theta JA}$		°C / W		
Operating Junction and Storage Temperature Range	T <sub>J</sub>	-55 to +125			°C





#### **RATING AND CHARACTERISTIC CURVES**

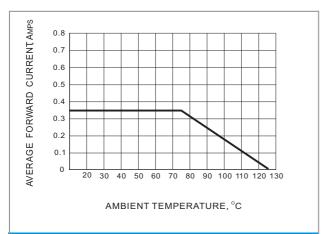
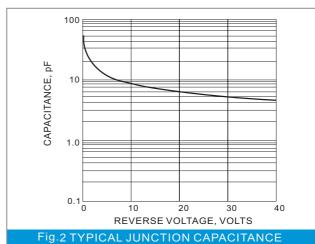


Fig.1 FORWARD CURRENT DERATING CURVE



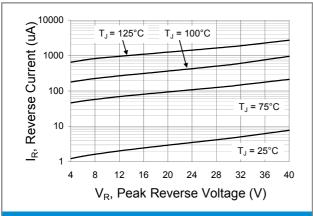


Fig.3 Typical Reverse Characteristics

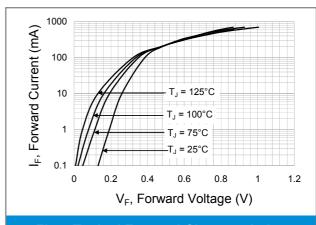
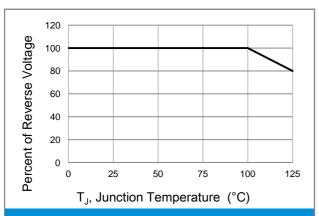


Fig.4 Typical Forward Characteristics

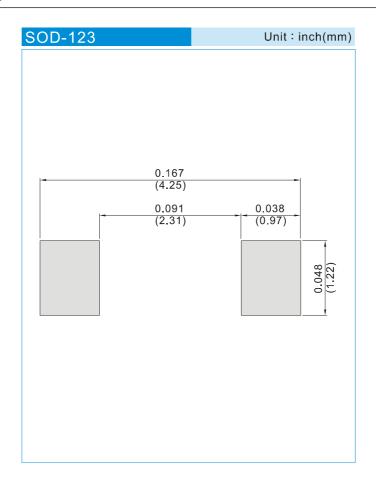


**Fig.5 Operating Temperature Derating Curve** 





#### **MOUNTING PAD LAYOUT**



#### **ORDER INFORMATION**

• Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





# Part No\_packing code\_Version

SD103AW\_R1\_00001 SD103AW\_R2\_00001

# For example:



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)	Α	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	Т	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					





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