



SURFACE MOUNT SCHOTTKY BARRIER

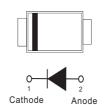
VOLTAGE 20 to 40 Volt CURRENT 0.35 Ampere

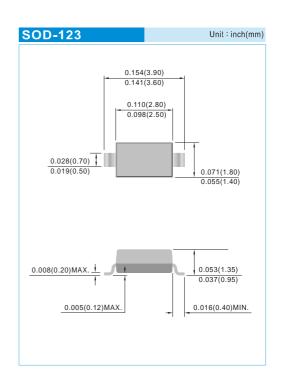
FEATURES

- · 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 _{RRM}	40	30	20	V
Maximum RMS Voltage	V _{RMS}	28	21	14	٧
Maximum DC Blocking Voltage	V _{DC}	40	30	20	V
Maximum Average Forward Current at T _A =75°C	I _{F(AV)}		А		
Peak Forward Surge Current at 10μS	I _{FSM}		А		
Maximum Instantaneous Forward Voltage	V _F		V		
Maximum Reverse Current	I _R	5@30V	5@20V	5@10V	uA
Typical Junction Capacitance at V _R =0V	C,		pF		
Maximum Thermal Resistance	$R_{_{\theta JA}}$		°C / W		
Operating Junction and Storage Temperature Range	T _J	-55 to +125			°C





RATING AND CHARACTERISTIC CURVES

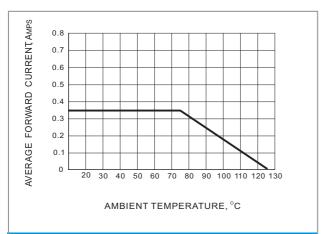
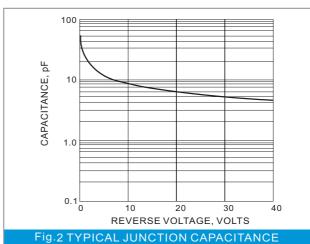


Fig.1 FORWARD CURRENT DERATING CURVE



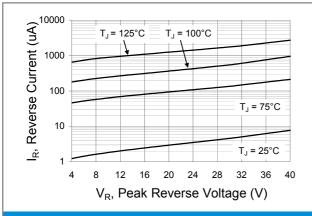


Fig.3 Typical Reverse Characteristics

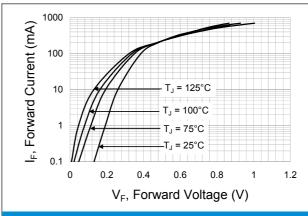


Fig.4 Typical Forward Characteristics

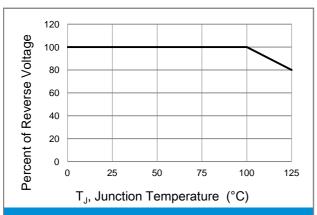
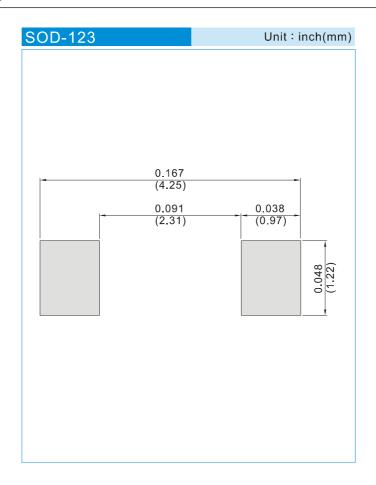


Fig.5 Operating Temperature Derating Curve





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 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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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