



### **SURFACE MOUNT SWITCHING DIODES**

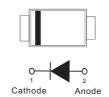
VOLTAGE 100 Volt POWER 410mWatt

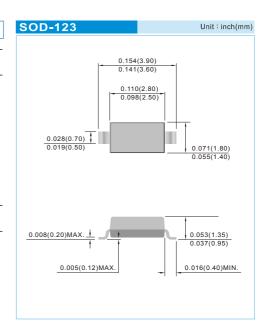
#### **FEATURES**

- · Fast switching Speed.
- · Electrically Identical to Standard JEDEC
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion.
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

#### **MECHANICAL DATA**

- · Case: SOD-123 plastic case.
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounce, 0.0103 gram
- Marking Code: A2





### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TJ = 25°C unless otherwise noted)

PARAMETER			VALUE	UNITS
Reverse Voltage			75	V
Peak Reverse Voltage		V <sub>RM</sub>	100	V
RMS Voltage		V <sub>RMS</sub>	50	V
Maximum DC Blocking Voltage		V <sub>DC</sub>	75	V
Maximum Average Forward Current at T <sub>A</sub> =25°C		I <sub>F(AV)</sub>	200	mA
Peak Forward Surge Current, 0.001ms		I <sub>FSM</sub>	4	А
Power Dissipation Derate Above 25°C		P <sub>TOT</sub>	410	mW
laximum Forward Voltage		V <sub>F</sub>	0. 715@1mA 0. 855@10mA 1@50mA 1. 25@150mA	V
Maximum DC Reverse Current at Rated DC Blocking Voltage Tյ= 25°C		I <sub>R</sub>	0. 025@20V 2. 5@75V	μА
Junction Capacitance (Notes 1)		C <sub>J</sub>	1. 5	pF
Maximum Reverse Recovery Time (Notes 2)		t <sub>rr</sub>	4	ns
Typical Thermal Resistance	(Notes 3) (Notes 3)	R <sub>eJA</sub> R <sub>eJC</sub> R <sub>eJL</sub>	450 257 329	°C/W
Operating and Storage Temperature Range		T <sub>J</sub> ,T <sub>STG</sub>	-55 to +150	°C

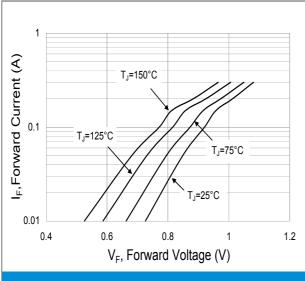
#### NOTE:

- 1.CJ at VR=0, f=1MHZ
- 2.From IF=10mA to IR=1mA, VR=6Volts, RL=100 $\Omega$
- 3. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.

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**Fig.%Typical Forward Characteristics** 

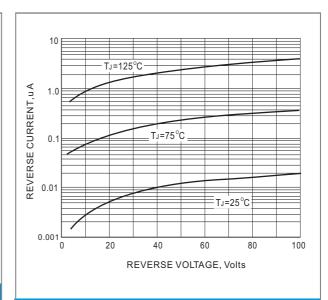
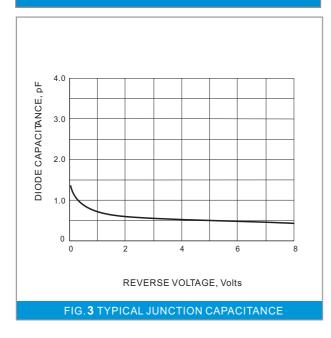
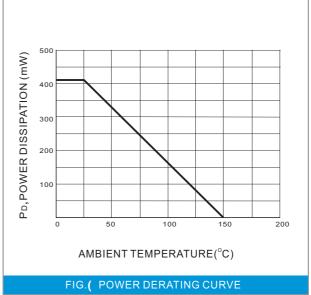


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

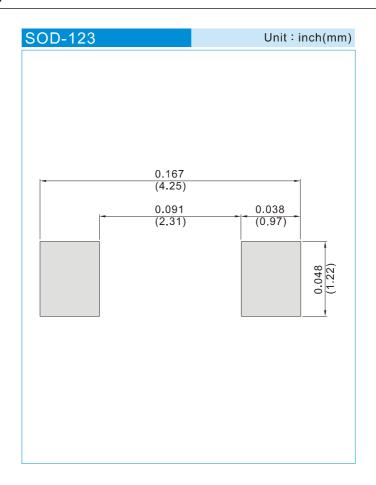








#### **MOUNTING PAD LAYOUT**



#### **ORDER INFORMATION**

Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

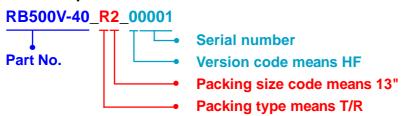




### Part No\_packing code\_Version

1N4148W\_R1\_00001 1N4148W\_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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