



SURFACE MOUNT SWITCHING DIODES

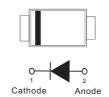
VOLTAGE 100 Volt POWER 410mWatt

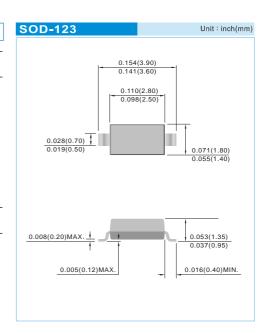
FEATURES

- 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 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

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

NOTE:

- 1.CJ at VR=0, f=1MHZ
- 2.From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100 Ω
- 3. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.





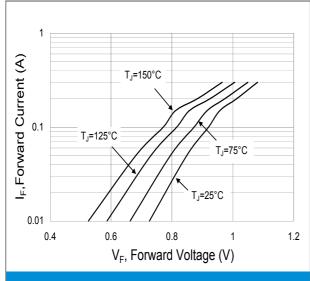


Fig.%Typical Forward Characteristics

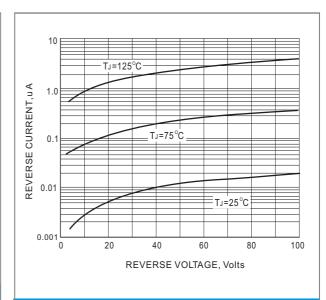
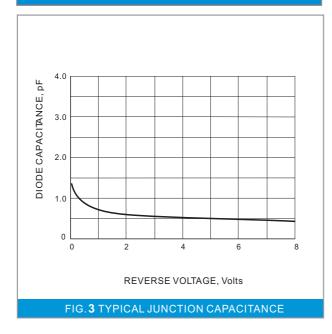
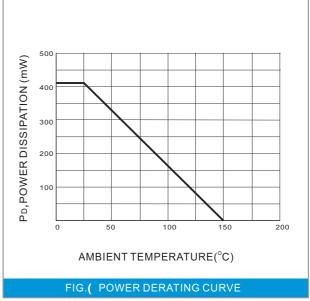


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

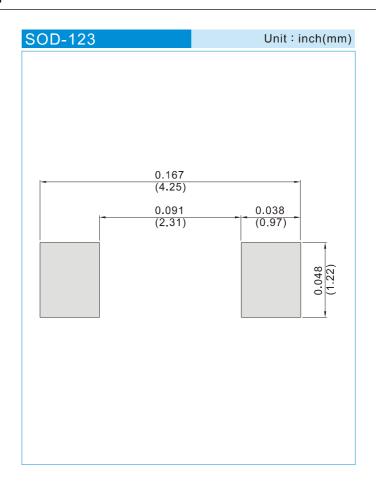








MOUNTING PAD LAYOUT



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 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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