PANJIT SEMI CONDUCTOR

1N4448W

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volts **POWER** 500mWatts

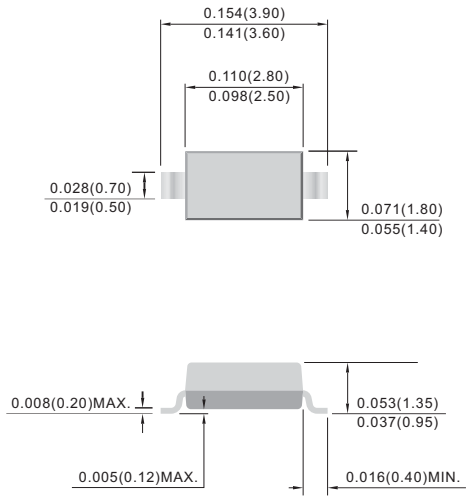
FEATURES

- Fast switching Speed
- Electrically Identical to Standerd JEDEC
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-123 plastic case.
- Terminals : Solderable per MIL-STD-750,Method 2026
- Standard packaging: 8mm tape
- Weight: approximately 0.0004 ounces, 0.01grams
- Marking Code: A3

SOD-123 Unit : inch(mm)



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

PARAMETER	SYMBOL	1N4448W	UNITS
Reverse Voltage	V_R	75	V
Peak Reverse Voltage	V_{RM}	100	V
RMS Voltage	V_{RMS}	50	V
Forward Continuous	I_{FM}	500	mA
Maximum DC Blocking Voltage	V_{DC}	75	V
Maximum Average Forward Current at T_A=25°C	$I_{F(AV)}$	150	mA
Peak Forward Surge Current, 1.0us	I_{FSM}	4	A
Power Dissipation Derate Above 25°C	P_{TOT}	500	mW
Maximum Forward Voltage	V_F	0.72 / 0.005A 1.0 / 0.1A	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_J=25°C	I_R	2.5@75V	μA
Junction Capacitance(Note1)	C_J	4.0	pF
Maximum Reverse Recovery (Note2)	t_{rr}	4.0	ns
Typical Thermal Resistance	$R_{\theta JA}$	450	°C / W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150	°C

NOTE:

1. CJ at V_R=0, f=1MHZ
2. From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω

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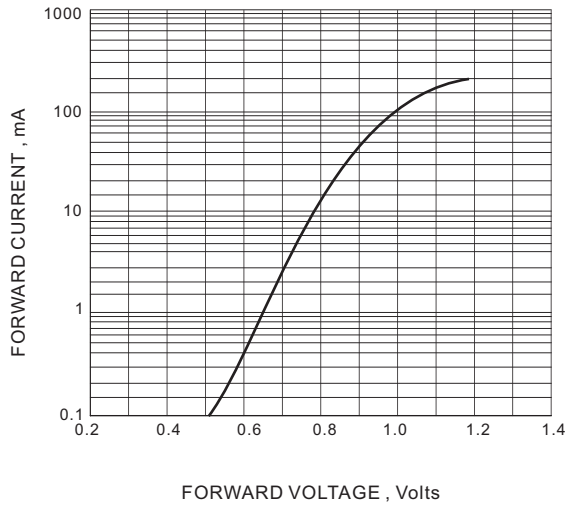


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

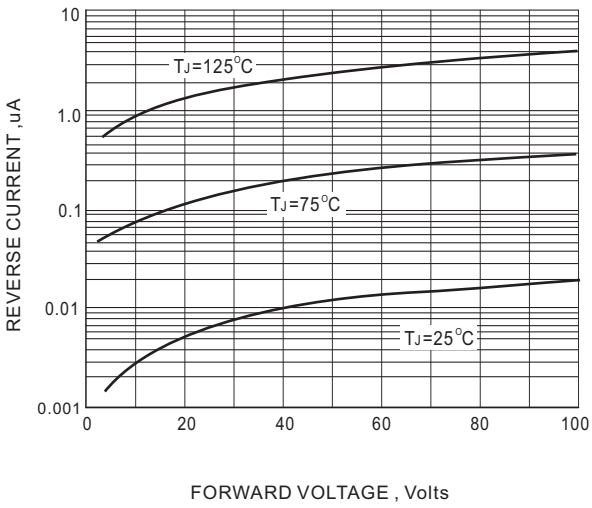


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

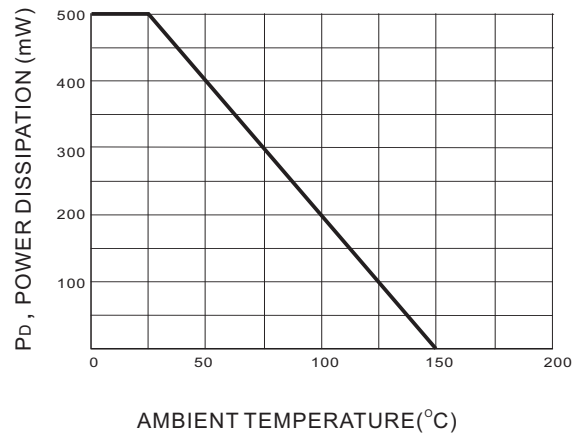
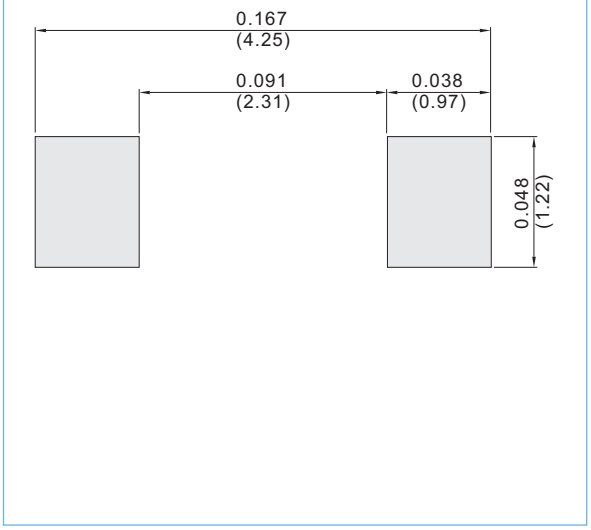


FIG. 3 POWER DERATING CURVE

1N4448W

MOUNTING PAD LAYOUT

SOD-123 Unit : inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 10K per 13" plastic Reel

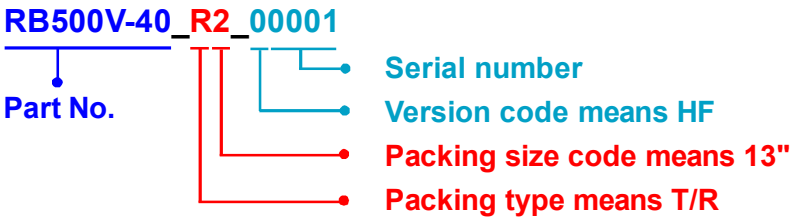
  T/R - 3K per 7" plastic Reel

1N4448W

Part No_packing code_Version

1N4448W_R1_00001
1N4448W_R2_00001

For example :



Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th 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			

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