

**SMALL SIGNAL DIODE**

**VOLTAGE RANG 75 Volts CURRENT 0.5A mpere**

**FEATURES**

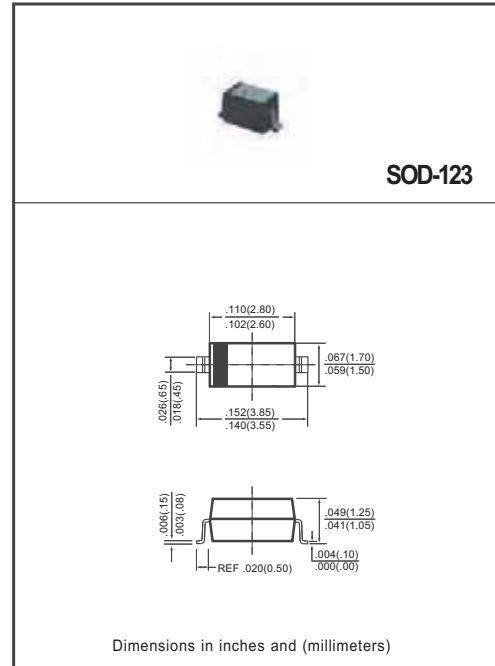
- \* Compact surface mount with same foot print as mini-melf
- \* High Breakdown Voltage
- \* Fast Switching Speed
- \* 400mW Power Dissipation
- \* General Purpose Switching Applications
- \* High Conductance

**MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94V-O rate flame retardant
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 0.01 gram
- \* Marking:T4

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.



**MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)**

RATINGS	SYMBOL	1N4148W	UNITS
Non-Repetitive Peak Reverse Voltage	VRM	120	Volts
Maximum Repetitive Peak Reverse Voltage	VRRM	120	Volts
Maximum Working Peak reverse Voltage	VRWM		
Maximum DC Blocking Voltage	VR		
Maximum RMS Voltage	VRMS	53	Volts
Maximum Forward Continuous Current	IFM	300	mAmps
Maximum Average Forward Rectified Current	IO	500	mAmps
Non-Repetitive Peak Forward Surge Current	IFSM	@t=1.0uS	2.0
		@t=1.0S	1.0
Typical Reverse Recovery Time	Trr	4	nS
Typical Junction Capacitance	CT	2	pF
Maximum Power Dissipation	PD	500	mW
Typical Thermal Resistance	RθJA	315	°C/W
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 150	°C

**ELECTRICAL CHARACTERISTICS (@TA=25 °C unless otherwise noted)**

CHARACTERISTICS	SYMBOL	1N4148W	UNITS
Maximum Instantaneous Forward Voltage	VF	@IF=1.0mA	0.715
		@IF=10mA	0.855
		@IF=50mA	1.0
		@IF=500mA	1.25
Maximum Instantaneous Reverse Current	IR	@VR=20V	25
		@VR=75V	1.0

## RATING AND CHARACTERISTICS CURVES (1N4148W)

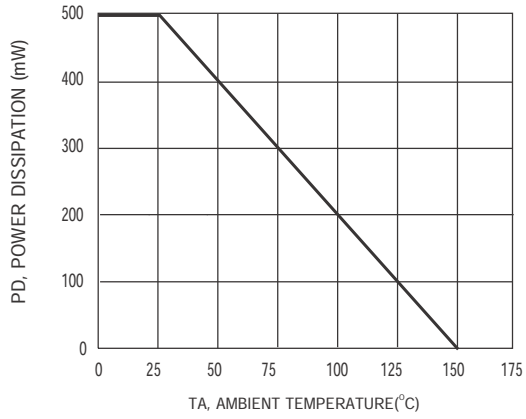


FIG.1 FORWARD DERATING CURVE

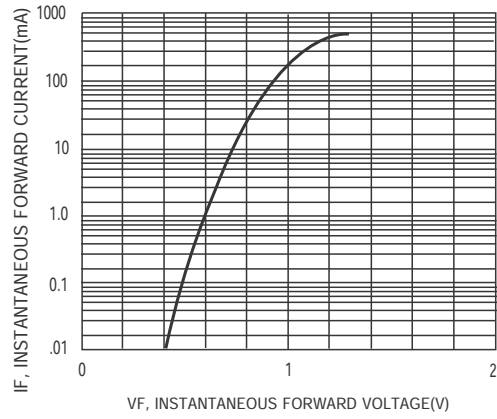


FIG.2 FORWARD CHARACTERISTICS

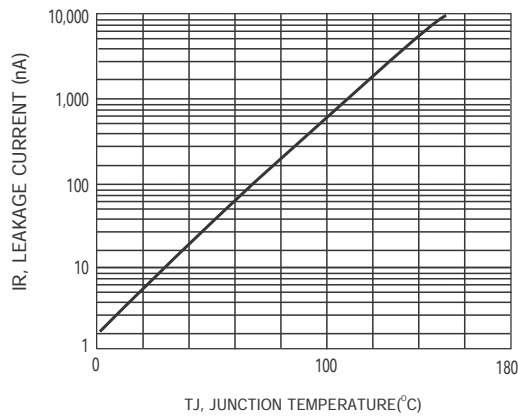
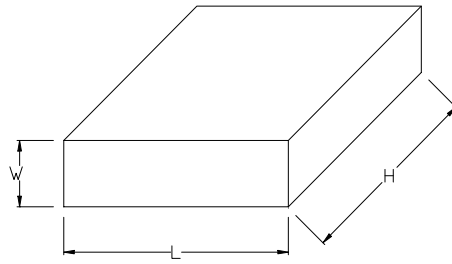


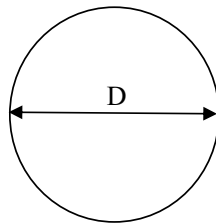
FIG.3 LEAKAGE CURRENT VS. JUNCTION TEMPERATURE

1. BOX



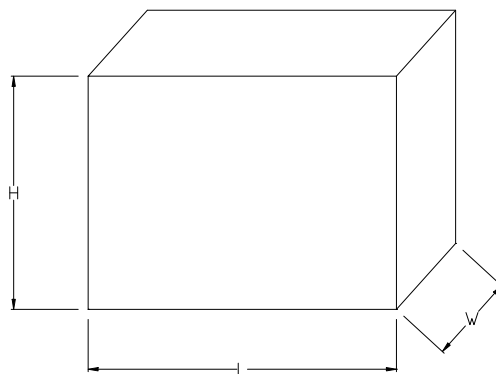
Packing Code	L (mm)	W (mm)	H (mm)
-T	182	68	182

2. REEL



Packing Code	D (mm)
-T	178

3. CARTON



Packing Code	L (mm)	W (mm)	H (mm)
-T	438	438	220

## PACKAGING OF DIODE

### REEL PACK

PACKAGE	PACKING CODE	REEL ( EA )	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SOD-123	-T	3,000	---	---	178	438*438*220	180,000	9.00

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