

### SMALL SIGNAL DIODE

## VOLTAGE RANG 75 Volts CURRENTO. 5A mpere

#### **FEATURES**

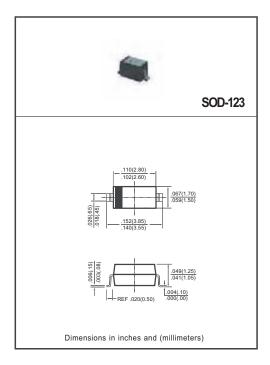
- \* Compact surface mount with same foot print as mini-melf
- \* High Breakdown Voltage
- \* Fast Switching Speed
- \* 400mW Power Dissipation
- \* General Purpose Switching Applications
- \* High Conductance

#### **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  $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



#### $\textbf{MAXIMUM RATINGS} \ (\textcircled{\tiny 0} \ \texttt{TA=25} \ ^{\circ}\texttt{C} \ unless \ otherwise \ noted)$

RATINGS	SYMBOL	1N4148W	UNITS
Non-Repetitive Peak Reverse Voltage	VRM	120	Volts
Maximum Repetitive Peak Reverse Voltage Maximum Working Peak reverse Voltage Maximum DC Blocking Voltage	VRRM VRWM VR	120	Volts
Maximum RMS Voltage	VRMS	53	Volts
Maximum Forward Comtinuous Current	IFM	300	mAmps
Maximum Average Forward Rectified Current	lo	500	mAmps
Non-Repetitive Peak Forward Surge Current @t=1.0uS @t=1.0s	IFSM	2.0 1.0	Amps
Typical Reverse Recovery Time	Trr	4	nS
Typical Junction Capacitance	C <sub>T</sub>	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)

ELECTRICAL CHARACTERISTICS (@TA-25 C	uniess otherwise note	au)		
CHARACTERISTICS		SYMBOL	1N4148W	UNITS
Maximum Instantaneous Forward Voltage	@IF=1.0mA @IF=10mA @IF=50mA @IF=500mA	VF	0.715 0.855 1.0 1.25	Volts
Maximum Instantaneous Reverse Current	@VR=20V @VR=75V	lR	25 1.0	nAmps uAmps

2020-11 REV:E

# **RATING AND CHARACTERISTICS CURVES (1N4148W)**

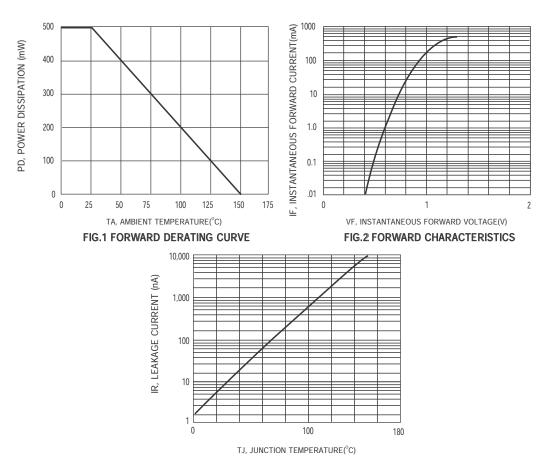
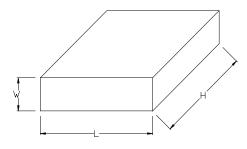


FIG.3 LEAKAGE CURRENT VS. JUNCTION TEMPERATURE

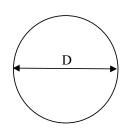


## 1. BOX



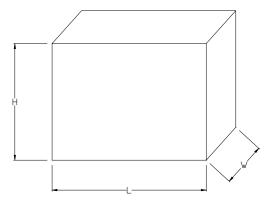
Packing	L	W	Н	
Code	(mm)	(mm)	(mm)	
-T	182	68	182	

## 2. REEL



Packing	D		
Code	(mm)		
-T	178		

## 3. CARTON



Packing	L	W	Н
Code	(mm)	(mm)	(mm)
-Т	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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