

SMALL SIGNAL DIODE

VOLTAGE RANG 100 Volts CURRENT 0.3 Ampere

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

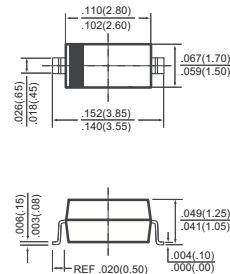
- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.01 gram
- * Marking:T4

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%.



SOD-123



Dimensions in inches and (millimeters)

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 Maximum Working Peak reverse Voltage Maximum DC Blocking Voltage	VRRM VRWM VR	100	Volts
Maximum RMS Voltage	VRMS	71	Volts
Maximum Forward Continuous Current	IFM	300	mAmps
Non-Repetitive Peak Forward Surge Current	IFSM	2.0	Amps
		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	0.715	Volts
		0.855	
		1.0	
		1.25	
Maximum Instantaneous Reverse Current	IR	25	nAmps
		1.0	uAmps

RATING AND CHARACTERISTICS CURVES (1N4148W)

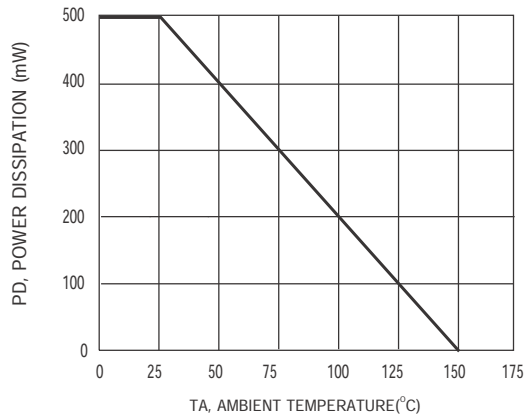


FIG.1 FORWARD DERATING CURVE

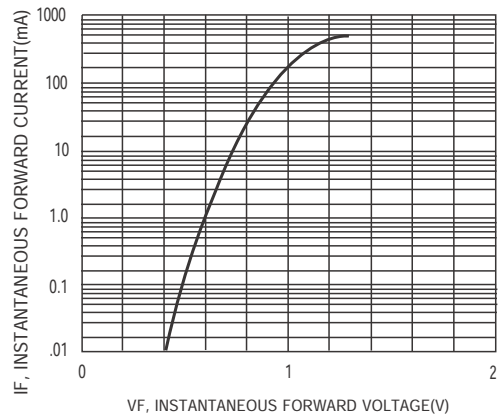


FIG.2 FORWARD CHARACTERISTICS

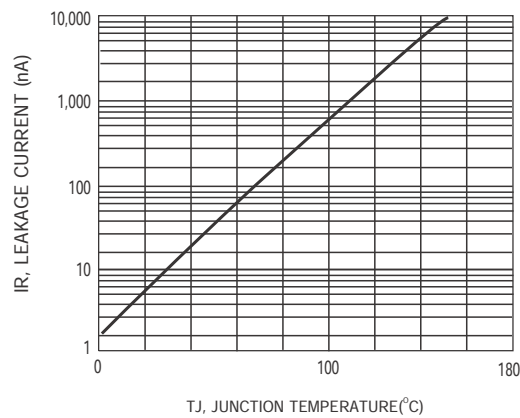
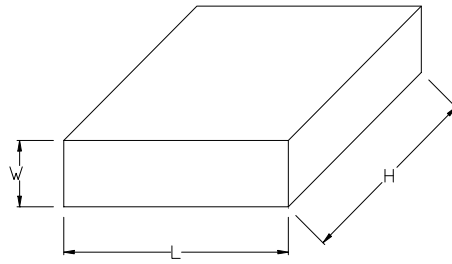


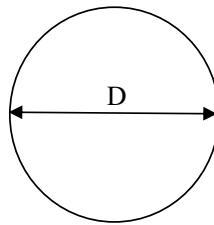
FIG.3 LEAKAGE CURRENT VS. JUNCTION TEMPERATURE

1. BOX



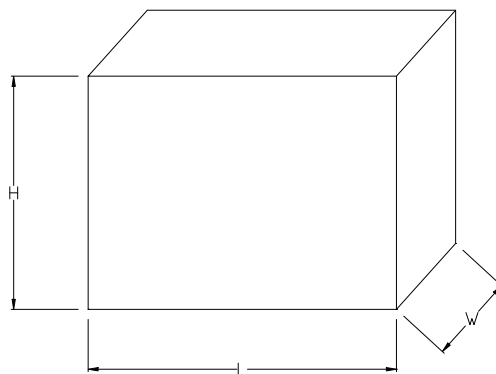
Packing Code	L (mm)	W (mm)	H (mm)
-T	182	68	182

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

DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Rectron:](#)

[1N4148W](#)