

## SURFACE MOUNT SILICON RECTIFIERS

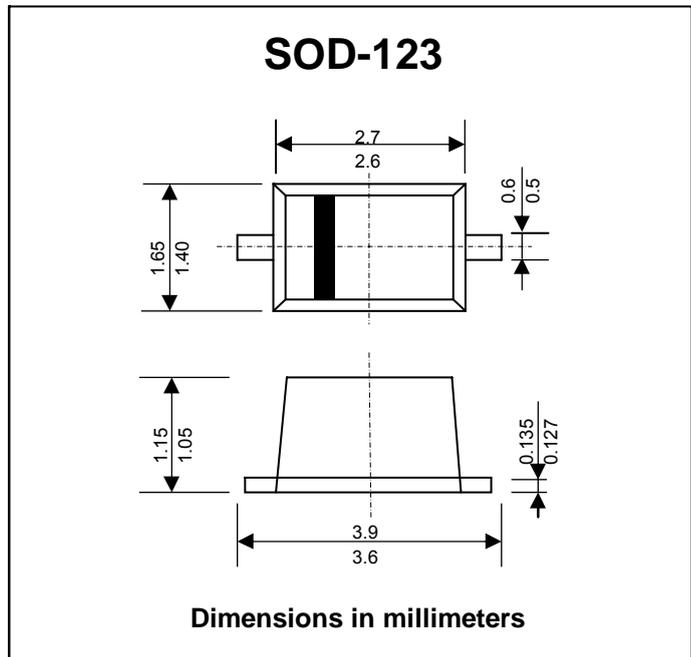
# 1N4148W

### FEATURES

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

### MECHANICAL DATA

- \* Case: Molded plastic
- \* Lead: Axial leads, solderable per MIL-STD-750, method 2026
- \* Polarity: Polarity symbols marked on case
- \* Marking: T4

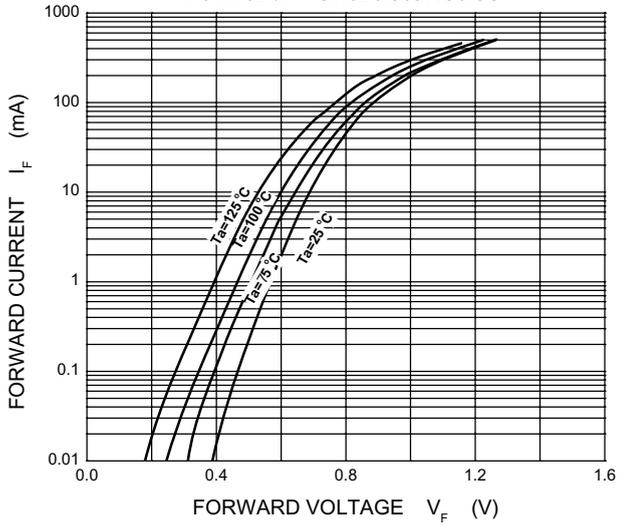


### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

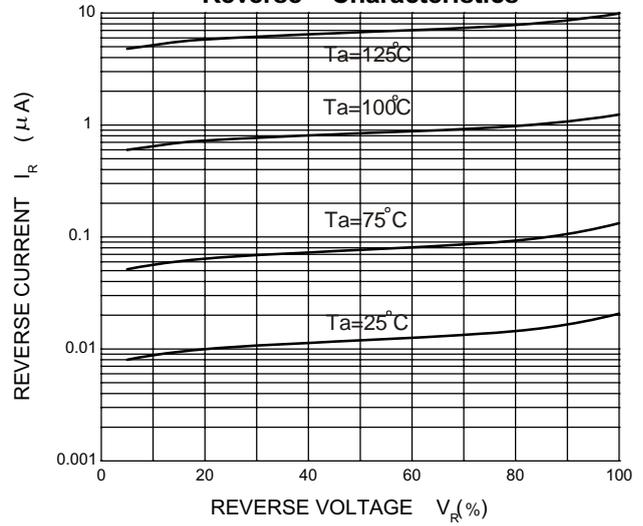
Rating 25 C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Value	UNITS
Maximum Recurrent Peak Reverse Voltage	100	V
Maximum RMS Voltage	70	V
Maximum DC Blocking Voltage	100	V
Maximum Average Forward Rectified Current		
See Fig. 1	0.15	A
Peak Forward Surge Current	4.0	A
	1.0	A
	0.85	
Maximum Instantaneous Forward Voltage	1.0	
	1.25	V
Maximum DC Reverse Current		
at Rated DC Blocking Voltage	1	μA
Typical Thermal resistance	355	°C/W
	225	
Typical Junction Capacitance (VR=0V f=1MHz)	1.15	pF
Total Power Dissipation	410	mW
Maximum Reverse Recovery Time (TRR typical )	4	ns
Operating Temperature Range T <sub>J</sub>	-55 to +150	°C
Storage Temperature Range T <sub>STG</sub>	-55 to +150	°C

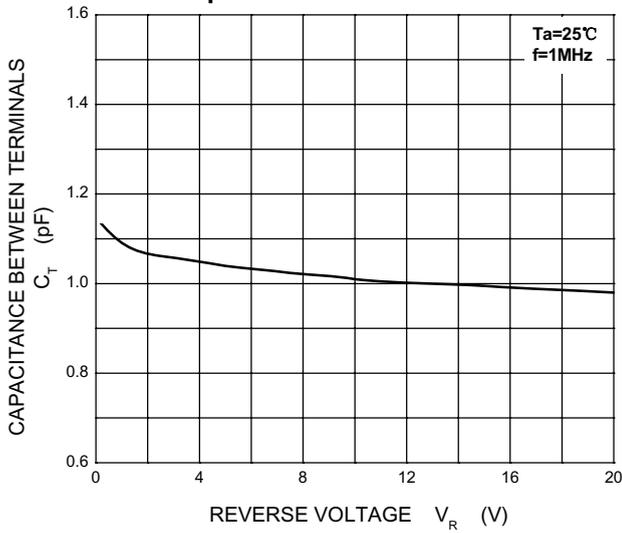
**Forward Characteristics**



**Reverse Characteristics**



**Capacitance Characteristics**



**Power Derating Curve**

