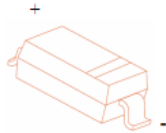


### FEATURES



- 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

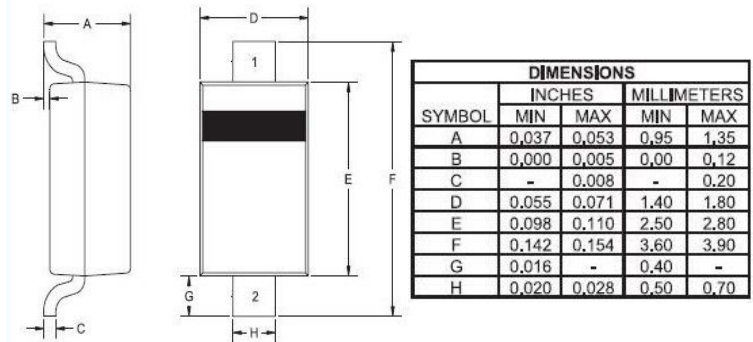
### VOLTAGE RANGE

100Volts

### CURRENT

0.15 Ampere

SOD123



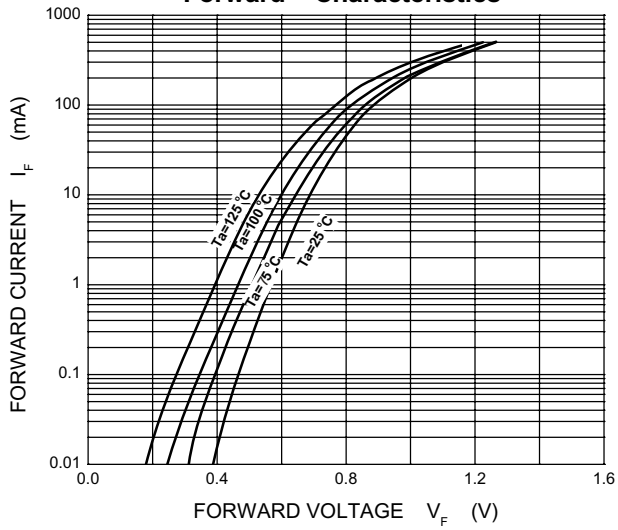
## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

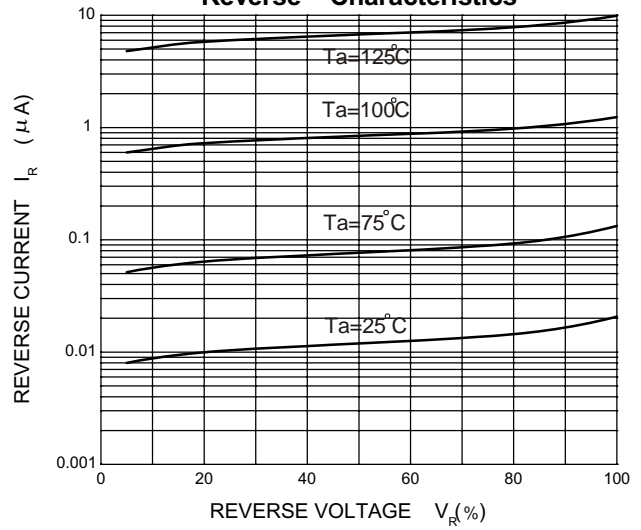
TYPE NUMBER	1N4148W	UNITS
Maximum Recurrent Peak Reverse Voltage	100	V
Maximum RMS Voltage	70	V
Maximum DC Blocking Voltage	100	V
Maximum Average Forward Rectified Current		
See Fig. 1	0.15	A
Peak Forward Surge Current @ t=1.0 μs	4.0	
@ t=1.0s	1.0	A
Maximum Instantaneous Forward Voltage at 0.01A	0.85	
at 0.05A	1.0	
at 0.15A	1.25	V
Maximum DC Reverse Current at Rated DC Blocking Voltage Ta=25°C	1	μA
Typical Thermal resistance RθJA	355	°C/W
RθJC	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 Tj	-55 to +150	°C
Storage Temperature Range Tstg	-55 to +150	°C

## RATING AND CHARACTERISTIC CURVES 1N4148W

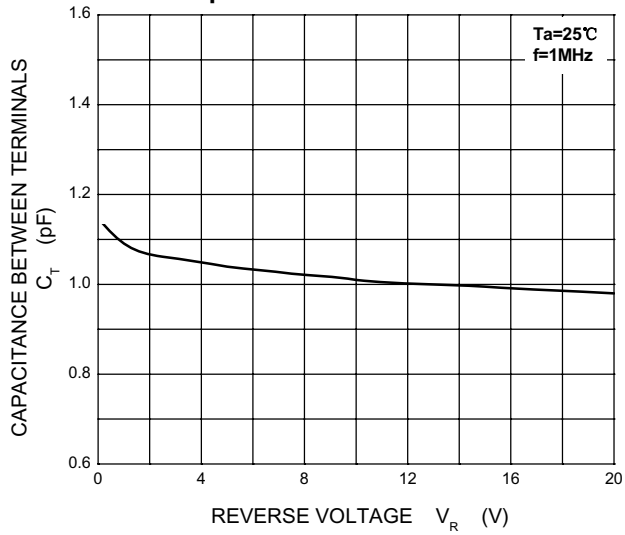
### Forward Characteristics



### Reverse Characteristics



### Capacitance Characteristics



### Power Derating Curve

