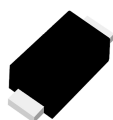


## 0.15 AMP SURFACE MOUNT SILICON RECTIFIERS

### FEATURES

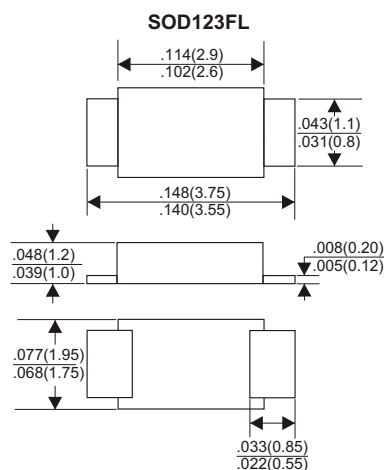


- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

### 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



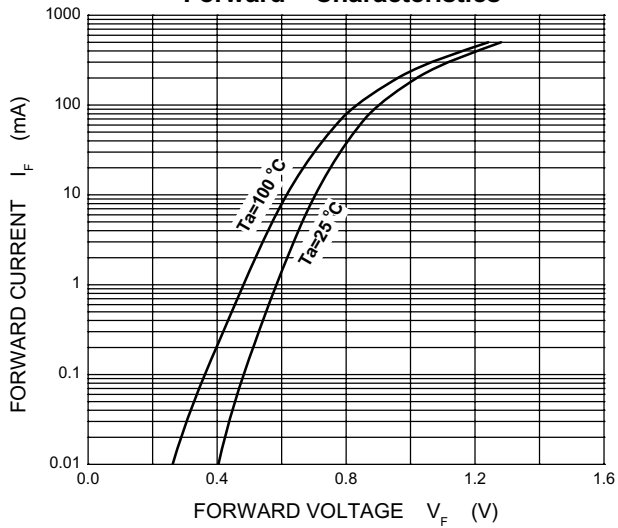
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

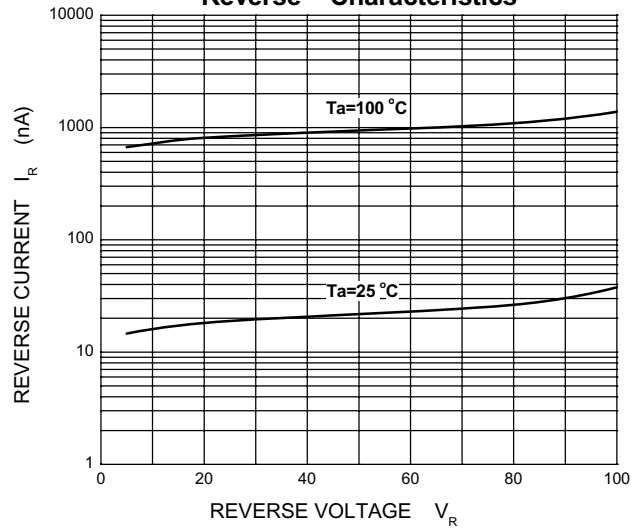
TYPE NUMBER	1N4148WL	UNITS
Maximum Recurrent Peak Reverse Voltage	100	V
Maximum RMS Voltage	70	V
Maximum DC Blocking Voltage	100	V
Maximum Average Forward Rectified Current		
See Fig. 1	0.15	A
Peak Forward Surge Current @ t=1.0 μs	2.0	A
@ t=1.0s	1.0	A
Maximum Instantaneous Forward Voltage at 0.15A	1.25	V
Maximum DC Reverse Current Ta=25°C	1	μA
at Rated DC Blocking Voltage		
Typical Junction Capacitance	5	pF
Total Power Dissipation	400	mW
Maximum Reverse Recovery Time (TRR typical)	8	ns
Operating Temperature Range Tj	-55 to +150	°C
Storage Temperature Range Tstg	-55 to +150	°C

## RATING AND CHARACTERISTIC CURVES 1N4148WL

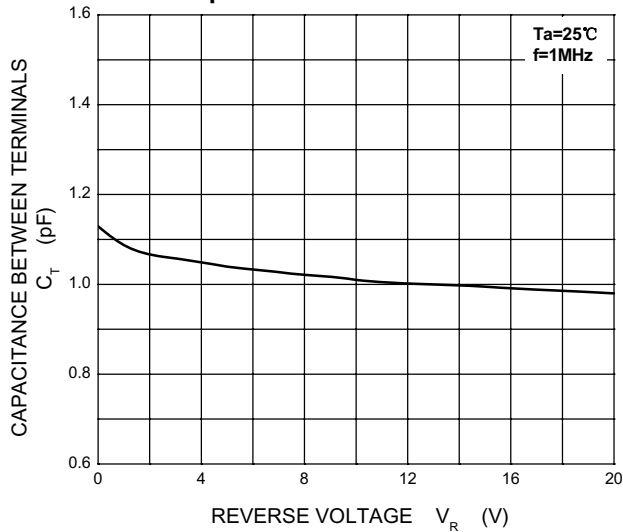
### Forward Characteristics



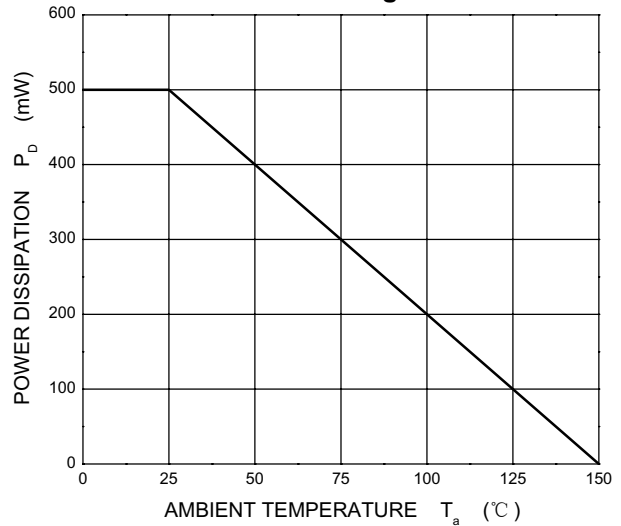
### Reverse Characteristics



### Capacitance Characteristics



### Power Derating Curve



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