

1N4148WS

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, T6

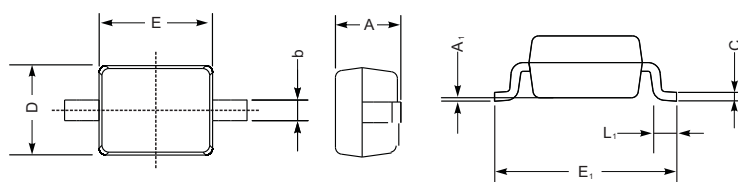
VOLTAGE RANGE

100Volts

CURRENT

0.15 Ampere

SOD323



UNIT		A	C	D	E	E ₁	b	L ₁	A ₁
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—
mil	max	43	5.9	55	70	108	16	16	8
	min	32	3.1	47	63	100	9.8	7.9	—

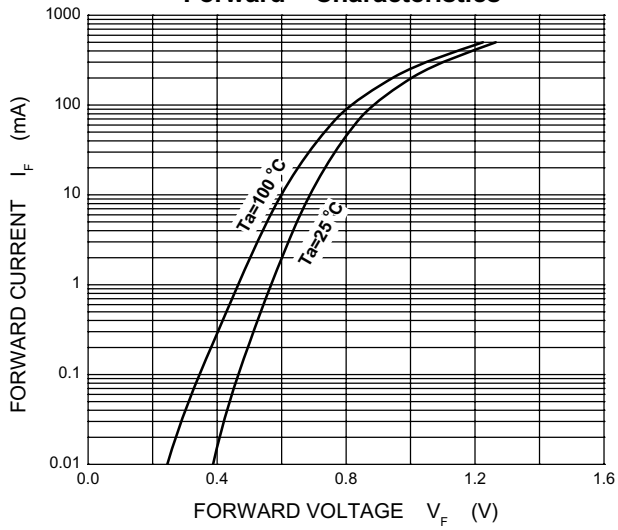
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

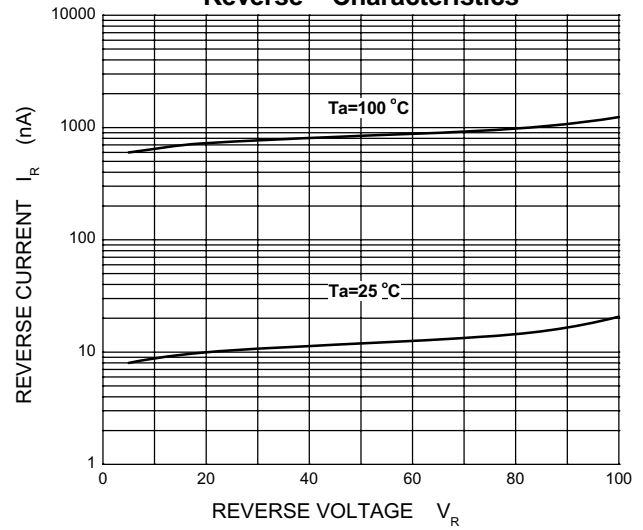
TYPE NUMBER	1N4148W	UNITS
Maximum Recurrent Peak Reverse Voltage	100	V
Maximum RMS Voltage	70	V
Maximum DC Blocking Voltage	100	V
Maximum Average Forward Rectified Current		
See Fig. 1	0.15	A
Peak Forward Surge Current @ t=1.0 μs	4.0	
@ t=1.0s	1.0	A
Maximum Instantaneous Forward Voltage at 0.01	0.85	
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 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 _J	-55 to +150	°C
Storage Temperature Range T _{STG}	-55 to +150	°C

RATING AND CHARACTERISTIC CURVES 1N4148WS

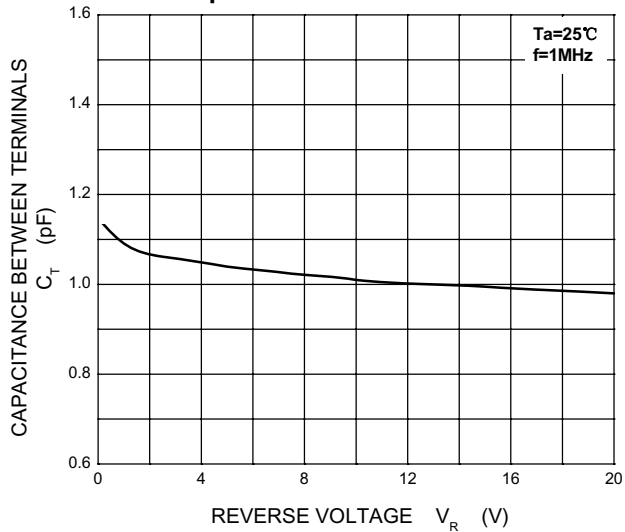
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

