1N4148W

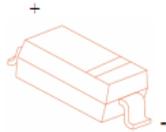## 0.15 AMP SURFACE MOUNT SILICON RECTIFIERS

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

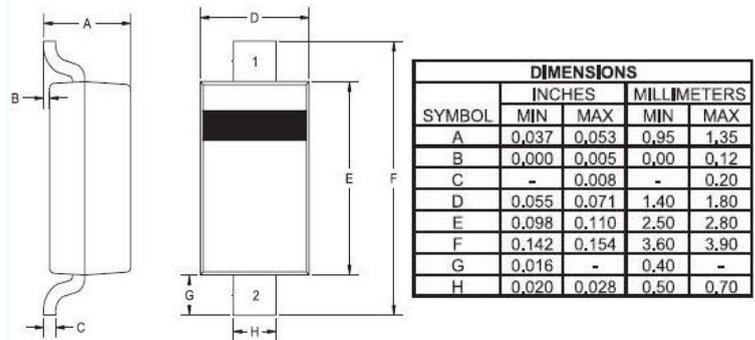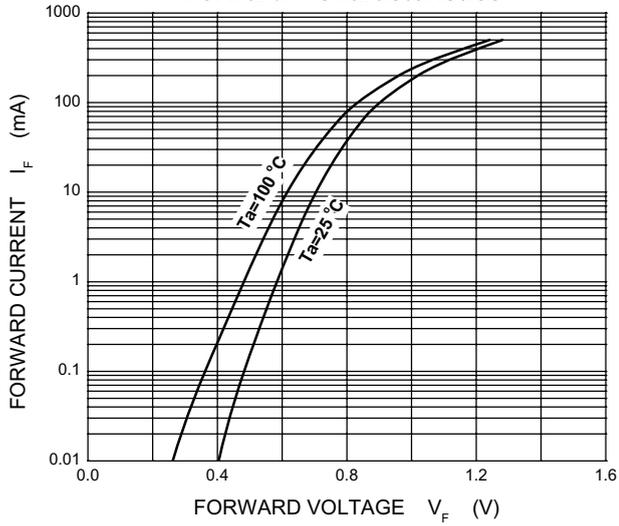## VOLTAGE RANGE
100Volts
CURRENT
0.15 Ampere

SOD123

SYMBOL	INCHES MIN	INCHES MAX	MILLIMETERS MIN	MILLIMETERS MAX
A	0.037	0.053	0.95	1.35
B	0.000	0.005	0.00	0.12
C	-	0.008	-	0.20
D	0.055	0.071	1.40	1.80
E	0.098	0.110	2.50	2.80
F	0.142	0.154	3.60	3.90
G	0.016	-	0.40	-
H	0.020	0.028	0.50	0.70

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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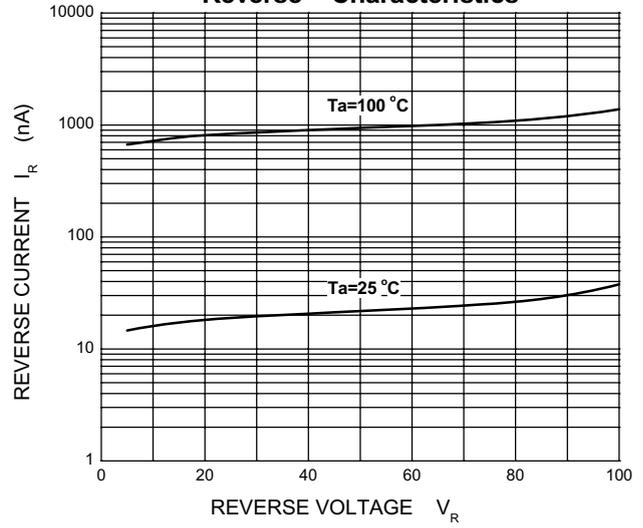For capacitive load, derate current by 20%.

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	2.0	
	@t =1.0s	1.0	A
Maximum Instantaneous Forward Voltage at 0.15A		1.25	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	Ta=25°C	1	µA
Typical Junction Capacitance		2	pF
Total Power Dissipation		400	mW
Maximum Reverse Recovery Time (TRR typical)		8	ns
Operating Temperature Range T$_J$		-55 to +150	$^{\circ}$C
Storage Temperature Range T$_{STG}$		-55 to +150	$^{\circ}$C

RATING AND CHARACTERISTIC CURVES 1N4148W

Forward Characteristics

FORWARD CURRENT I_F (mA)

FORWARD VOLTAGE V_F (V)

Ta=100 °C

Ta=25 °C

Reverse Characteristics

REVERSE CURRENT I_R (nA)

REVERSE VOLTAGE V_R

Ta=100 °C

Ta=25 °C

Capacitance Characteristics

CAPACITANCE BETWEEN TERMINALS C_T (pF)

REVERSE VOLTAGE V_R (V)

Ta=25℃
f=1MHz

Power Derating Curve

POWER DISSIPATION P_D (mW)

AMBIENT TEMPERATURE T_a (℃)
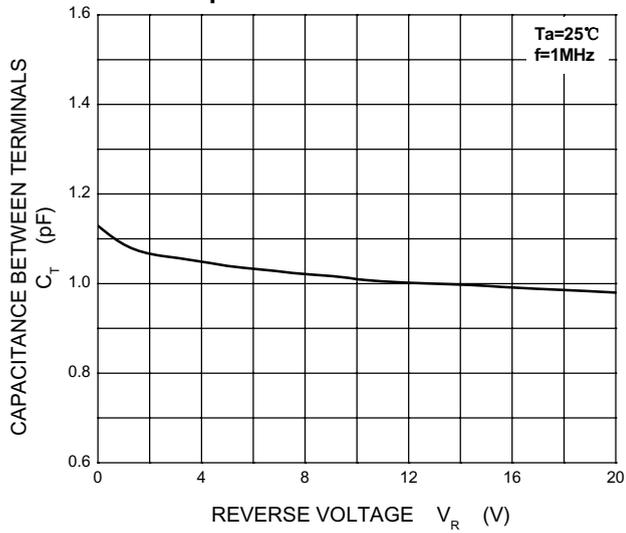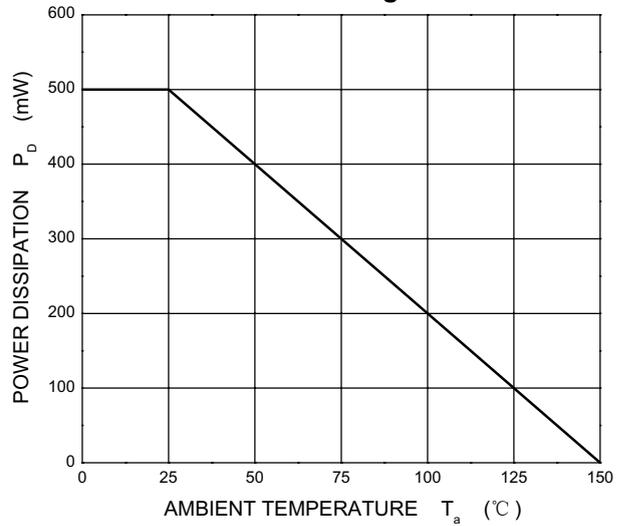
X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching *category:*

Click to view products by GOODWORK *manufacturer:*

Other Similar products are found below :

MMBD3004S-13-F RD0306T-H BAV17-TR BAV19-TR HSC285TRF-E 1N3611 NTE156A NTE574 NTE6244 1SS181-TP 1SS193,LF 1SS400CST2RA SDAA13 SHN2D02FUTW1T1G LS4151GS08 1N4449 1N456A 1N4934-E3/73 1N914B 1N914BTR 1SS226-TP RFUH20TB3S D291S45T BAV300-TR BAW56DWQ-7-F BAW75-TAP MM230L-CAA IDW40E65D1 JAN1N3600 LL4151-GS18 053684A SMMSD4148T3G 707803H NSVDAN222T1G CDSZC01100-HF LL4150-M-08 1N4454-TR BAV199E6433HTMA1 BAS28-7 BAW56HDW-13 BAS28 TR VS-HFA04SD60STR-M3 NSVM1MA152WKT1G RGP30D-E3/73 BAV99TQ-13-F BAS21DWA-7 NTE6250 NTE582-4 NTE582-6 MMDB30-E28X