

New Jersey Semi-Conductor Products, Inc.

20 STERN AVE.
SPRINGFIELD, NEW JERSEY 07081
U.S.A.

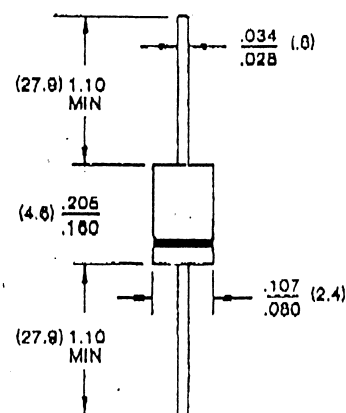
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1N4946

VOLTAGE RANGE
200 to 1000 Volts

CURRENT
1.0 Ampere

DO-41



Dimensions in Inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single-phase, half-wave, 60 Hz, resistive or inductive load.

	1N4942	1N4944	1N4946	1N4947	1N4948	UNITS
Maximum Recurrent Peak Reverse Voltage*	200	400	600	800	1000	V
Maximum RMS Voltage	140	280	420	580	700	V
Maximum DC Blocking Voltage*	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375 Lead Length 55°C	1.0					A
Peak Forward Surge Current, I _{FM} (surge):* 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	25.0					A
Maximum Forward Voltage at 1.0 ADC	1.3					V
Maximum DC Reverse Current at Rated DC Blocking Voltage	1.0					μA
Maximum DC Reverse Current at 150°C at Rated DC Blocking Voltage	200.0					μA
Maximum Reverse Recovery Time (Note 1)*	160	160	250	250	500	ns
Typical Junction Capacitance (Note 2)	15					pF
Operating and Storage Temperature Range* T _A	-65 to +175					°C

NOTES:

1—Measured with I_F = .5A, I_a = 1A, I_r = .25A