New Jersey Semi-Conductor Products, Inc.

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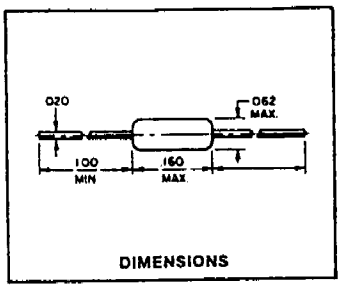
GENERAL PURPOSE SILICON DIODES

This device is a Silicon Double Plug Diode for general purpose use in computer, industrial and military applications.



DIMENSIONS

ABSOLUTE MAXIMUM RATINGS

Storage temperature range, T_{stg} ..... −65°C to +200°C

Lead or terminal temperature at a distance not less than 1/16" from the seated surface (or case) for 15 seconds ..... +275°C

	1N5605	1N5606	1N5607	1N5608/9
Reverse voltage, 25°C, free air	70 V	150 V	200 V	120 V
Maximum steady state power dissipation at 25°C, free air	250mw	200mw	200mw	250mw
Derating factor				2mw/°C

ELECTRICAL CHARACTERISTICS

	1N5605		1N5606*		1N5607*	
	MIN	MAX	MIN	MAX	MIN	MAX
Forward Voltage, Vf @ If = 20 ma		1.0 V		1.0 V		1.0 V
Breakdown Voltage, Bvr Ir = 100 ua	70 V		150 V		200 V	
Reverse Current, Ir @ Vr = 60 V		25 na		25 na		25 na
Reverse Current, Ir @ Vr = 60 V @ 150°C		5 ua		5 ua		5 ua

*If = 7 ma, Vr = 125 V *If = 3 ma, Vr = 175 V

1N5605 1N5606 1N5607 1N5608

ELECTRICAL CHARACTERISTICS — 1N5608	MIN	MAX
Forward Voltage, Vf @ If = 100 ma		1.0 V
Breakdown Voltage, Bvr Ir — 100 ua	120 V	
Reverse Current, Ir @ 50 V		50 na
Reverse Current, Ir @ 50 V @ 150°C		25 ua
*Reverse Recovery Time, Trr If = 5 ma, Vr = 40 V R1 = 2 K, C1 = 10 pf Recover to 80K ohms		300 nsec

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Quality Semi-Conductors

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