

New Jersey Semi-Conductor Products, Inc.

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U.S.A.

1N5555 1N5556
1N5557 1N5558

ELECTRICAL CHARACTERISTICS

JEDEC Type Number (Notes 1&2)	Minimum Breakdown Voltage $V_{(BR)} @ I_{(BR)}$	Test Current $I_{(BR)}$	Rated Standoff Voltage V_{WM}	Maximum (RMS) Reverse Voltage $V_{WM(RMS)}$	Maximum Standby Current $I_0 @ V_{WM}$	Maximum Peak Reverse Voltage $V_C @ I_{PP}$	Maximum Peak Pulse Current I_{PP}	Maximum Temperature Coefficient of $V_{(BR)}$ $(\alpha V_{(BR)})$ @ 1.0 mA
	V	mA	V	V	μA	V	A	%/°C
1N5555	33.0	1.0	30.5	21.5	5	47.5	32	+0.93
1N5556	43.7	1.0	40.3	28.5	5	63.5	24	+0.94
1N5557	54.0	1.0	49.3	34.5	5	78.5	19	+0.96
1N5558	191.0	1.0	175.0	124.0	5	265.0	5.7	+1.00

NOTE 1: A TVS is normally selected according to the rated "Standoff Voltage" V_{WM} that should be equal to or greater than the dc or continuous peak operating voltage level.

MAXIMUM RATINGS

1500 Watts for 10/1000 μs with repetition rate of 0.01% or less* at lead temperature (T_L) 25°C

Operating & Storage Temperatures: -65° to +175°C

THERMAL RESISTANCE: 50°C/W junction to lead at 0.375 inches (10 mm) from body or 110°C/W junction to ambient when mounted on FR4 PC board with 4 mm² copper pads (1oz) and track width 1 mm, length 25 mm

DC Power Dissipation*: 1 Watt at $T_L = +25^\circ C$ 3/8" (10 mm) from body (see derating in Fig 3)

MECHANICAL AND PACKAGING

CASE: DO-13

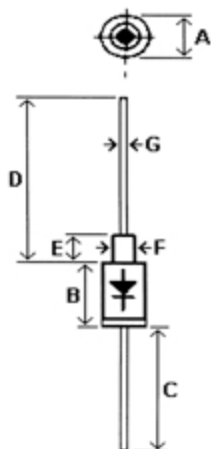
FINISH: All external metal surfaces are Tin-Lead plated

POLARITY: Cathode connected to case and polarity indicated by diode symbol

MARKING: Part number and polarity diode symbol

WEIGHT: 1.4 grams. (Approx)

PACKAGE DIMENSIONS



DO-13

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	--	.235	--	5.97
B	.315	.350	8.001	8.890
C	1.250	--	31.750	--
D	1.250	--	31.750	--
E	--	.210	--	5.334
F	--	.090	--	2.286
G	.026	.035	.660	.889