

New Jersey Semi-Conductor Products, Inc.

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1N4611 thru 1N4613C

MAXIMUM RATINGS *

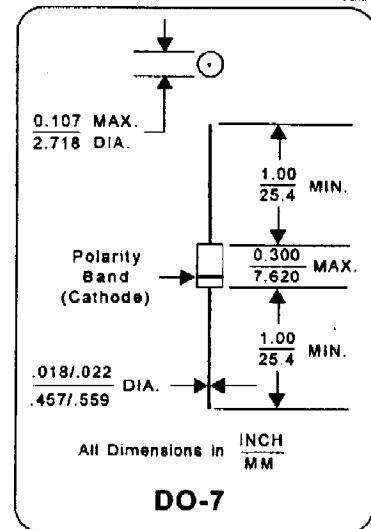
Operating Temperature: -65 °C to +175 °C
Storage Temperature: -65 °C to +200 °C
DC Power Dissipation: 400 mW at 50 °C
Power Derating: 3.33 mW/°C above 50 °C

Note 1: The maximum allowable change observed over the entire temperature range, i.e. the diode voltage will not exceed the specified change at any discrete temperature between the established limits

Note 2: Zener impedance is derived by superimposing on I_{zT} a 60 Hz a.c. current equal to 10% of I_{zT} .

DESIGN DATA

CASE: Hermetically sealed glass case. DO-7 Outline.
LEAD MATERIAL: Copper Clad Steel
LEAD FINISH: Tin Plate
THERMAL RESISTANCE: 250 °C/w (Typical) junction to ambient.
POLARITY: Diode to be operated with the banded (cathode) end positive with respect to the opposite end
WEIGHT: 0.2 Grams
MOUNTING POSITION: Any



ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified

JEDEC TYPE NUMBERS	ZENER VOLTAGE (±5%) V_{zT} at I_{zT}	ZENER TEST CURRENT I_{zT}	MAXIMUM DYNAMIC IMPEDANCE (Note 2) Z_{zT}	MAXIMUM REVERSE CURRENT I_r at $V_r=3.0V$	MAXIMUM TEMPERATURE COEFFICIENT at I_{zT} -50°C to +100°C	OPERATING CURRENT RANGE	MAXIMUM TEMPERATURE COEFFICIENT OVER OPERATING CURRENT RANGE (Note 1) -50°C to +100°C	TYPICAL NOISE LEVEL
	Volts	mA	Ohms	uA	%/°C	mA	%/°C	uV
1N4611	6.6	2.0	75.0	0.20	.005	1.0 - 3.0	.01	1.0
1N4611A	6.6	2.0	75.0	0.20	.002	1.0 - 3.0	.005	1.0
1N4611B	6.6	2.0	75.0	0.20	.001	1.0 - 3.0	.002	1.0
1N4611C	6.6	2.0	75.0	0.20	.0005	1.0 - 3.0	.001	1.0
1N4612	6.6	5.0	25.0	0.20	.005	3.0 - 7.0	.01	1.0
1N4612A	6.6	5.0	25.0	0.20	.002	3.0 - 7.0	.005	1.0
1N4612B	6.6	5.0	25.0	0.20	.001	3.0 - 7.0	.002	1.0
1N4612C	6.6	5.0	25.0	0.20	.0005	3.0 - 7.0	.001	1.0
1N4613	6.6	10.0	15.0	0.20	.005	7.0 - 15.0	.01	1.0
1N4613A	6.6	10.0	15.0	0.20	.002	7.0 - 15.0	.005	1.0
1N4613B	6.6	10.0	15.0	0.20	.001	7.0 - 15.0	.002	1.0
1N4613C	6.6	10.0	15.0	0.20	.0005	7.0 - 15.0	.001	1.0

* JEDEC Registered Data.



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