

1N3154 thru 1N3157A

TEMPERATURE COMPENSATED ZENER REFERENCE DIODES 8.4 VOLT NOMINAL ZENER VOLTAGE

MAXIMUM RATINGS *

Operating Temperature	-55 °C to +200 °C
Storage Temperature	-55 °C to +200 °C
DC Power Dissipation	500 mW at 50 °C
Power Derating	3.33 mW/°C above 50 °C

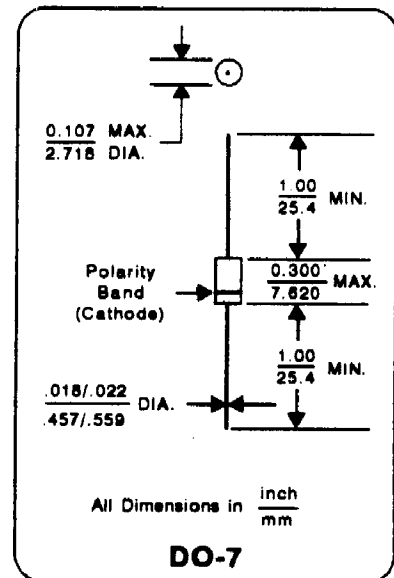
* ELECTRICAL CHARACTERISTICS @ 25 °C, unless otherwise specified

JEDEC TYPE NUMBERS	ZENER VOLTAGE V _Z @ I _{ZT}	ZENER TEST CURRENT I _{ZT}	MAXIMUM ZENER IMPEDANCE (Note 1) Z _{zt}	VOLTAGE TEMPERATURE STABILITY (Note 2) ΔV _{ZT} MAXIMUM	TEMPERATURE RANGE	EFFECTIVE TEMPERATURE COEFFICIENT
	VOLTS	mA	OHMS	mV	°C	%/°C
1N3154 1N3154A	8.00-8.80	10	15	132	-55 to +100	.01
	8.00-8.80	10	15	170	-55 to +150	.01
1N3155 1N3155A	8.00-8.80	10	15	65	-55 to +100	.005
	8.00-8.80	10	15	86	-55 to +150	.005
1N3156 1N3156A	8.00-8.80	10	15	26	-55 to +100	.002
	8.00-8.80	10	15	34	-55 to +150	.002
1N3157 1N3157A	8.00-8.80	10	15	13	-55 to +100	.001
	8.00-8.80	10	15	17	-55 to +150	.001

* JEDEC Registered Data.

NOTE 1: Zener impedance is derived by superimposing on I_{ZT} a 60 Hz rms a.c. current equal to 10% of I_{ZT}.

NOTE 2: The maximum allowable change observed over the entire temperature range i.e., the diode voltage will not exceed the specified mV at any discrete temperature between the established limits.



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

