

Microsemi Corp.

The diode experts.

SANTA ANA, CA

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ALSO
AVAILABLE IN
SURFACE
MOUNT

**1N5550
thru
1N5554**

FEATURES

- Voidless hermetically sealed glass package.
- Triple layer passivation.
- Metallurgically bonded.
- JAN/TX/TXV available per MIL-S-19500/420.

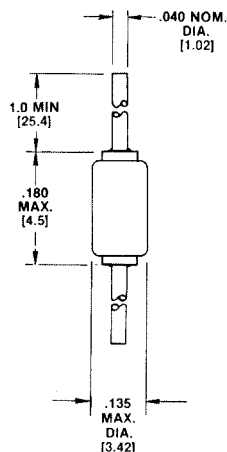
MAXIMUM RATINGS

Operating Temperature: -65°C to $+175^{\circ}\text{C}$.

Storage Temperature: -65°C to $+175^{\circ}\text{C}$.

ELECTRICAL CHARACTERISTICS

TYPE	MINIMUM REVERSE BREAKDOWN VOLTAGE ($\omega = 50 \mu\text{A}$)	PEAK INVERSE VOLTAGE PIV VOLTS	AVERAGE RECTIFIED CURRENT I_{A} AMPS (55°C)	FORWARD VOLTAGE V_{F} @ 9A (pk)		REVERSE CURRENT I_{R} @ PIV μA	REVERSE RECOVERY t_{r} μSEC
				MIN.	MAX.		
1N5550	240	200	5.0	.6V (pk)	1.2V (pk)	1.0	2.0
1N5551	480	400	5.0	.6V (pk)	1.2V (pk)	1.0	2.0
1N5552	660	600	5.0	.6V (pk)	1.2V (pk)	1.0	2.0
1N5553	880	800	5.0	.6V (pk)	1.3V (pk)	1.0	2.0
1N5554	1100	1000	5.0	.6V (pk)	1.3V (pk)	1.0	2.0



**FIGURE 1
PACKAGE E**

MECHANICAL CHARACTERISTICS

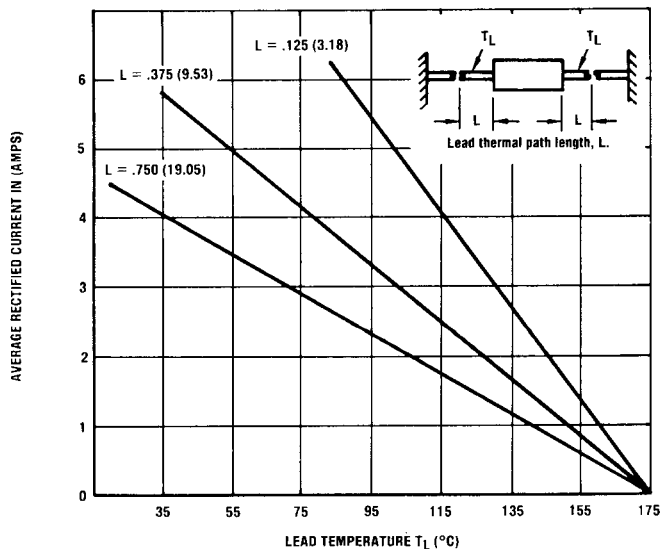
CASE: Hermetically sealed hard glass.

LEAD MATERIAL: Tinned Copper.

MARKING: Body painted, alpha numeric.

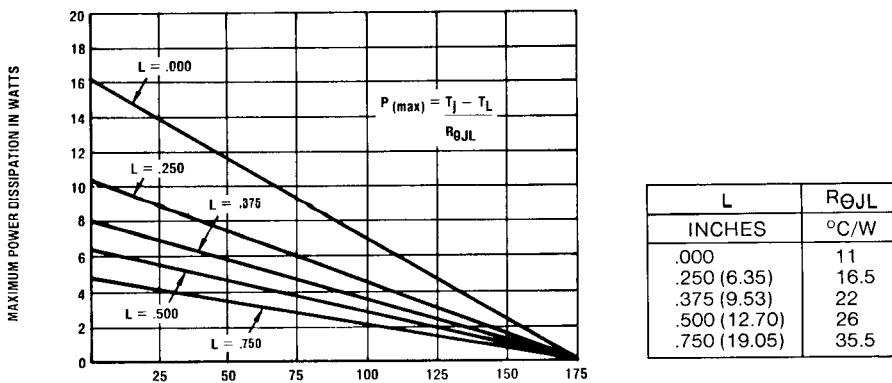
POLARITY: Cathode band.

1N5550 thru 1N5554



- NOTES:**
1. Dimensions are in inches.
 2. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.

FIGURE 2
MAXIMUM CURRENT vs. LEAD TEMPERATURE



Maximum lead temperature in $^{\circ}\text{C}$ (T_L) at point "L" from body
(For maximum operating junction temperature of 175 $^{\circ}\text{C}$ with equal two-lead conditions).

- NOTES:**
1. Dimensions are in inches.
 2. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.

FIGURE 3
MAXIMUM POWER IN WATTS vs. LEAD TEMPERATURE