Microsemi Corp.
The diode experts
SANTA ANA, CA
For more information call:
(714) 979-8220

ALSO AVAILABLE IN SURFACE MOUNT

1N5550 thru 1N5554

RECTIFIERS

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°C.
Storage Temperature: −65°C to +175°C.

ELECTRICAL CHARACTERISTICS

TYPE	MINIMUM REVERSE BREAKDOWN VOLTAGE @ 50μA	PEAK INVERSE VOLTAGE PIV VOLTS	AVERAGE RECTIFIED CURRENT I_O AMPS (55°C)	FORWARD VOLTAGE V_F @ 9A (pk) MIN.	FORWARD VOLTAGE V_F @ 9A (pk) MAX.	REVERSE CURRENT I_R @ PIV μA	REVERSE RECOVERY t_{rr} μsec
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

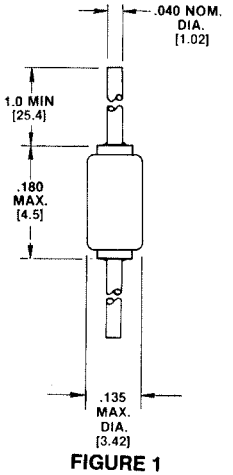


FIGURE 1
PACKAGE E

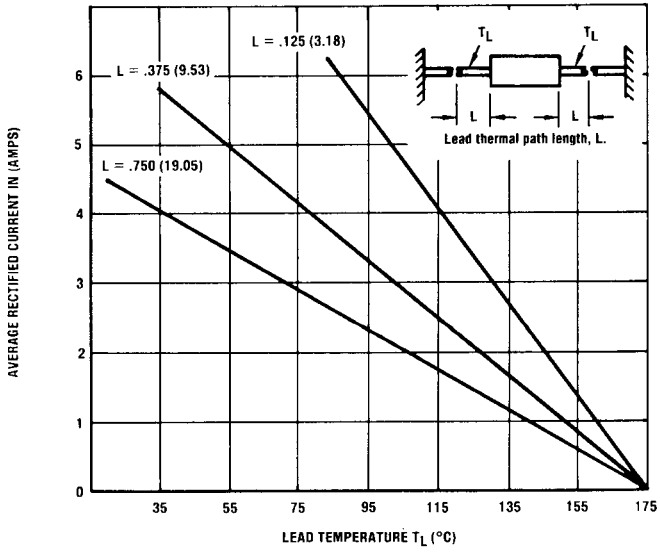
MECHANICAL CHARACTERISTICS

CASE: Hermetically sealed hard glass.

LEAD MATERIAL: Tinned Copper.

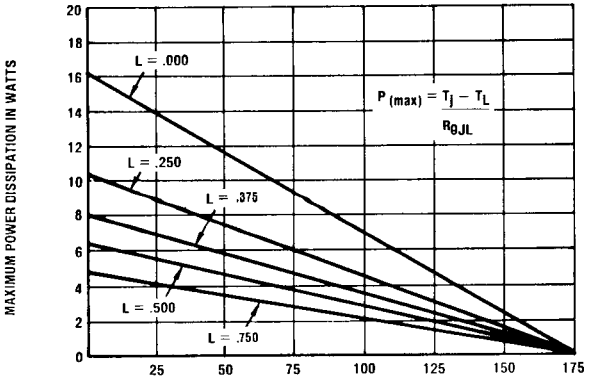
MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.



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



L	$R_{\theta JL}$
INCHES	°C/W
.000	11
.250 (6.35)	16.5
.375 (9.53)	22
.500 (12.70)	26
.750 (19.05)	35.5

Maximum lead temperature in °C (T_L) at point "L" from body (For maximum operating junction temperature of 175°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

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