

Microsemi Corp.

The diode experts

SANTA ANA, CA

For more information call:
(714) 979-8220



1N5614 thru
1N5622



FEATURES

- MICROMINIATURE PACKAGE
- VOIDLESS HERMETICALLY SEALED GLASS PACKAGE
- TRIPLE LAYER PASSIVATION
- METALLURGICALLY BONDED
- STANDARD RECOVERY
- PIV TO 1000 VOLTS
- JAN/S/TX/TXV TYPES AVAILABLE PER MIL-S-19500/427

MAXIMUM RATINGS

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

Storage Temperature: -65°C to $+200^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS

TYPE	PEAK INVERSE VOLTAGE (MIN.) PIV	BREAKDOWN VOLTAGE (MIN.) B _V @ 50 μA	AVERAGE RECTIFIED CURRENT I _o		FORWARD VOLTAGE (MAX.) V _F @ 3 A	REVERSE CURRENT (MAX.) I _R @ PIV		SURGE CURRENT (MAX.) (NOTE 1) I _F (surge)	REVERSE RECOVERY (MAX.) (NOTE 2) t _{rr}
	VOLTS	VOLTS	AMPS		VOLTS	μA		AMPS	μsec.
			50°C	100°C		25°C	100°C		
JAN 1N5614	200	220	1.00	.750	.8 MIN. 1.3 MAX.	1.0	25	30	2.0
JAN 1N5616	400	440	1.00	.750		1.0	25	30	2.0
JAN 1N5618	600	660	1.00	.750		1.0	25	30	2.0
JAN 1N5620	800	880	1.00	.750		1.0	25	30	2.0
JAN 1N5622	1000	1100	1.00	.750		1.0	25	30	2.0

NOTE 1: $T_A = 100^{\circ}\text{C}$, $f = 60\text{ Hz}$, $I_o = 750\text{ mA}$, 10-8 m sec. surges @ 1/minute.

NOTE 2: $I_F = 0.5\text{ A}$, $I_{Rm} = 1\text{ A}$, $I_R(\text{REC}) = .250\text{ A}$

MILITARY RECTIFIERS

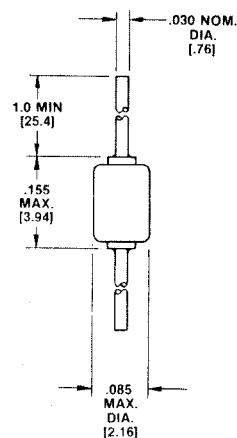


FIGURE 1
PACKAGE A

MECHANICAL CHARACTERISTICS

CASE: Hermetically sealed glass case.

LEAD MATERIAL: Tinned copper.

MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.

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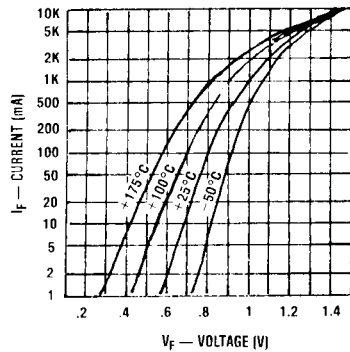


FIGURE 2
TYPICAL FORWARD VOLTAGE
vs FORWARD CURRENT

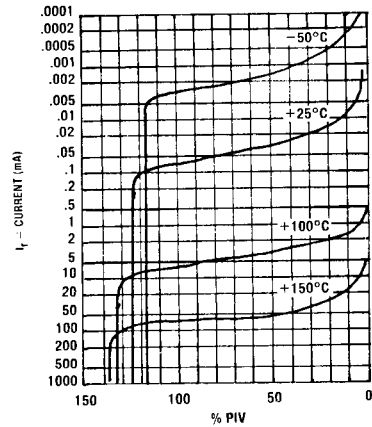


FIGURE 3
TYPICAL REVERSE CURRENT vs PIV

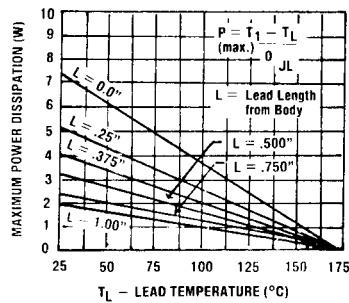


FIGURE 4
MAXIMUM POWER DISSIPATION
vs LEAD TEMPERATURE

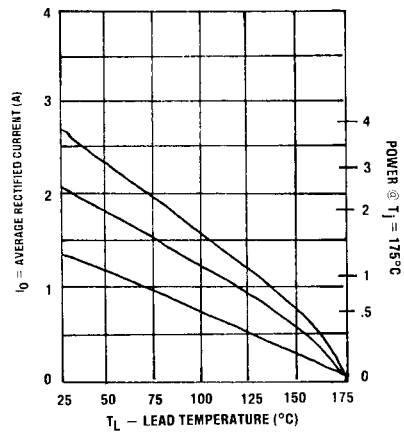


FIGURE 5
MAXIMUM CURRENT
vs LEAD TEMPERATURE

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