

Microsemi Corp.
The diode experts

ALSO
AVAILABLE IN
SURFACE
MOUNT

SANTA ANA, CA

For more information call:
(714) 979-8220

**1N5615
thru
1N5623**

☆JANS☆

FEATURES

- MICROMINIATURE PACKAGE
- VOIDLESS HERMETICALLY SEALED GLASS PACKAGE
- TRIPLE LAYER PASSIVATION
- METALLURGICALLY BONDED
- FAST RECOVERY
- PIV TO 1000 VOLTS
- JANS/TX/TXV TYPES AVAILABLE PER MIL-S-19500/429

MAXIMUM RATINGS

Operating Temperature: -65°C to $+175^{\circ}\text{C}$.
Storage Temperature: -65°C to $+200^{\circ}\text{C}$.
Thermal Resistance: -38°C/W
Surge Current: 25A.

ELECTRICAL CHARACTERISTICS

TYPE	PEAK INVERSE VOLTAGE (MAX.) PIV	BREAKDOWN VOLTAGE (MIN.) B _V @ 50 μA	AVERAGE RECTIFIED CURRENT I _O		FORWARD VOLTAGE (MAX.) V _F @ 3A	REVERSE CURRENT (MAX.) I _R @ PIV		CAPACITANCE (MAX.) C @ -12V	SURGE CURRENT (MAX.) (NOTE 1) I _F (surge)	REVERSE RECOVERY (MAX.) (NOTE 2) t _{rr}
			AMPS			μA				
			55°C	100°C		25°C	100°C			
	VOLTS	VOLTS			VOLTS			pF	AMPS	n sec
JAN 1N5615	200	220	1.0	.750	.8 MAX.	.5	25	45	25	150
JAN 1N5617	400	440	1.0	.750		.5	25	35	25	150
JAN 1N5619	600	660	1.0	.750		.5	25	25	25	250
JAN 1N5621	800	880	1.0	.750		.5	25	20	25	300
JAN 1N5623	1000	1100	1.0	.750		.5	25	15	25	500

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

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

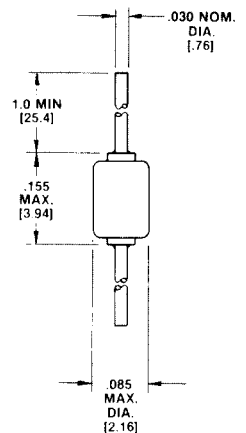


FIGURE 1
PACKAGE A

MECHANICAL CHARACTERISTICS

CASE: Hermetically sealed glass case.

LEAD MATERIAL: Tinned copper.

MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.

1N5615 thru 1N5623

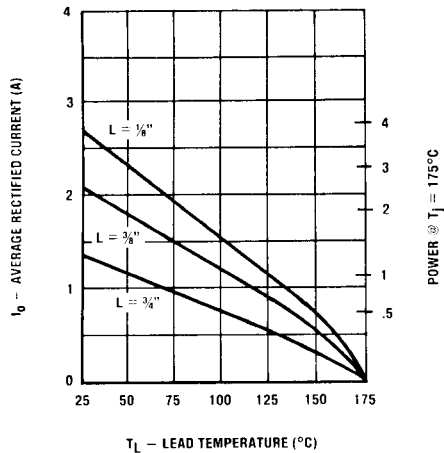


FIGURE 2
MAXIMUM CURRENT
vs. LEAD TEMPERATURE

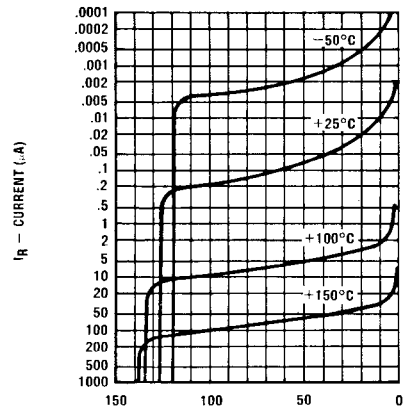


FIGURE 3
TYPICAL REVERSE CURRENT
vs. PIV

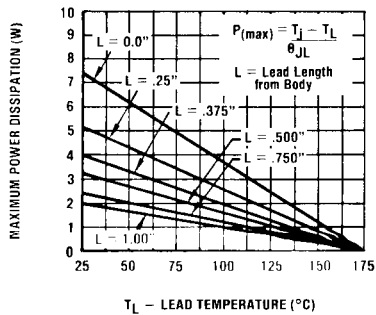


FIGURE 4
MAXIMUM POWER
vs. LEAD TEMPERATURE

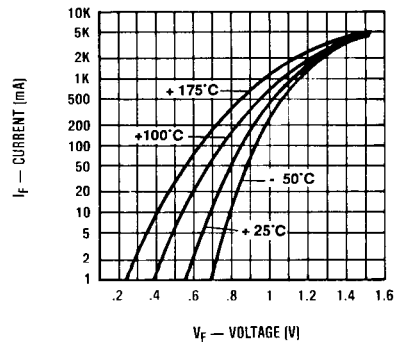


FIGURE 5
TYPICAL FORWARD VOLTAGE
vs. FORWARD CURRENT