



SANTA ANA, CA

For more information call:  
(714) 979-8220

**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°C.  
Storage Temperature: -65°C to +200°C.  
Thermal Resistance: -38°C/W  
Surge Current: 25A.

**ELECTRICAL CHARACTERISTICS**

TYPE	PEAK INVERSE VOLTAGE (MAX.) PIV	BREAKDOWN VOLTAGE (MIN.) $B_V$ @ 50 $\mu$ A	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			$\mu$ A				
			55°C	100°C		25°C	100°C			
JAN 1N5615	200	220	1.0	.750	.8 MIN.	.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	1.6 MAX.	.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:  $I_F = 0.5\text{ A}$ ,  $I_{Rm} = 1\text{ A}$ ,  $i_{R(REC)} = .250\text{ A}$

**MILITARY RECTIFIERS**

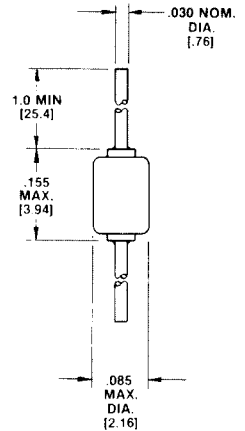
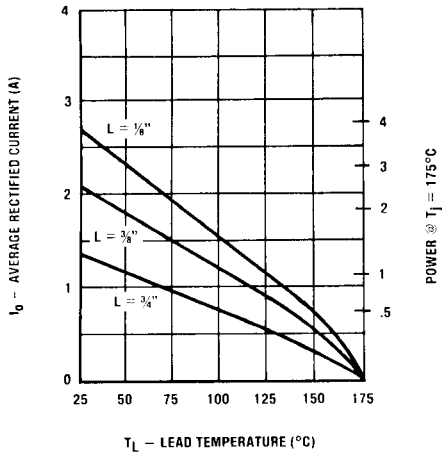


FIGURE 1  
PACKAGE A

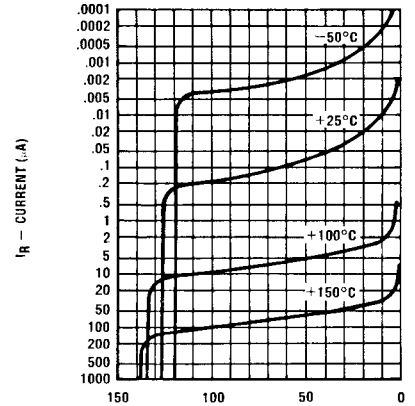
**MECHANICAL CHARACTERISTICS**

- CASE: Hermetically sealed glass case.
- LEAD MATERIAL: Tinned copper.
- MARKING: Body painted, alpha numeric.
- POLARITY: Cathode band.

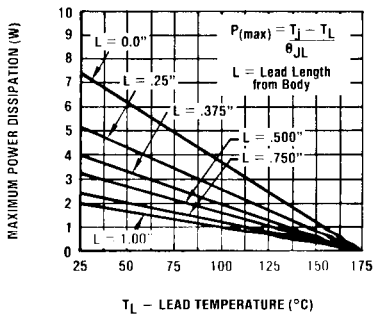
# 1N5615 thru 1N5623



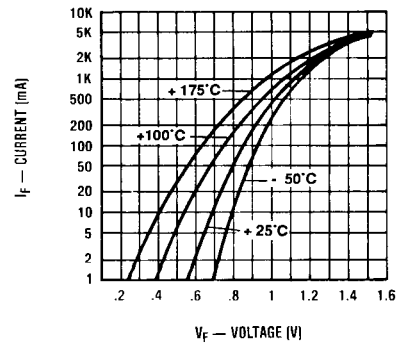
**FIGURE 2**  
MAXIMUM CURRENT  
vs LEAD TEMPERATURE



**FIGURE 3**  
TYPICAL REVERSE CURRENT  
vs. PIV



**FIGURE 4**  
MAXIMUM POWER  
vs. LEAD TEMPERATURE



**FIGURE 5**  
TYPICAL FORWARD VOLTAGE  
vs. FORWARD CURRENT