

**Microsemi Corp.**  
The diode experts

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**1N3611 thru  
1N3614, 1N3957**

**FEATURES**

- MICROMINIATURE PACKAGE
- VOIDLESS HERMETICALLY SEALED GLASS PACKAGE
- TRIPLE LAYER PASSIVATION
- METALLURGICALLY BONDED
- STANDARD RECOVERY
- PIV TO 1000 VOLTS
- JAN/TX/TXV TYPES AVAILABLE PER MIL-S-19500/228

**MAXIMUM RATINGS**

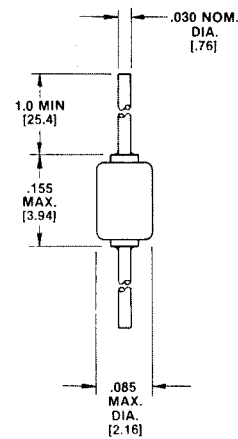
Operating Temperature: -65°C to +175°C  
Storage Temperature: -65°C to +200°C

**ELECTRICAL CHARACTERISTICS**

TYPE	PEAK INVERSE VOLTAGE (MIN.) PIV	BREAKDOWN VOLTAGE (MIN.) $B_V$ @ 100 $\mu$ A	AVERAGE RECTIFIED CURRENT $I_o$		FORWARD VOLTAGE (MAX.) $V_F$ @ 1 A	REVERSE CURRENT (MAX.) $I_R$ @ PIV		SURGE CURRENT (MAX.) (NOTE 1) $I_F$ (surge)
			AMPS			$\mu$ A		
			100°C	150°C		25°C	150°C	
JAN 1N3611	200	240	1.0	.3	1.1	1.0	300	30
JAN 1N3612	400	480	1.0	.3	1.1	1.0	300	30
JAN 1N3613	600	720	1.0	.3	1.1	1.0	300	30
JAN 1N3614	800	920	1.0	.3	1.1	1.0	300	30
JAN 1N3957	1000	1150	1.0	.3	1.1	1.0	300	30

NOTE 1:  $T_A = 150^\circ\text{C}$ ,  $f = 60\text{ Hz}$ ,  $I_o = 300\text{ mA}$ , 10-8 m sec. surges @ 1/minute.

**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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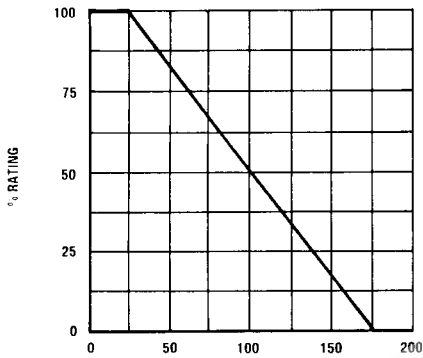


FIGURE 2  
TEMPERATURE  
DERATING CURVE

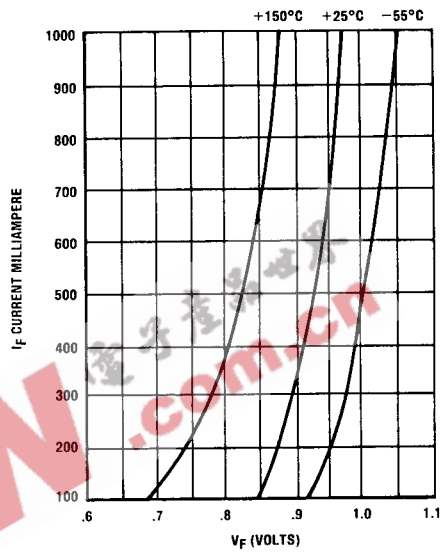


FIGURE 3  
TYPICAL FORWARD  
CONDUCTANCE CURVE

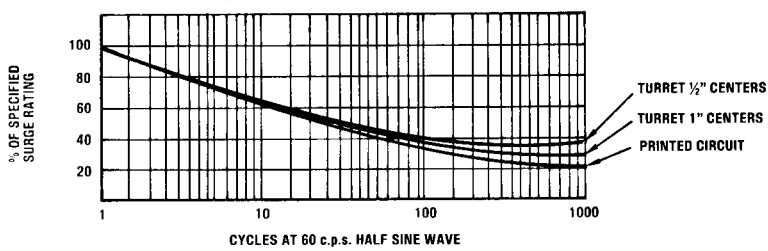


FIGURE 4  
ALLOWABLE PEAK SURGE vs DURATION

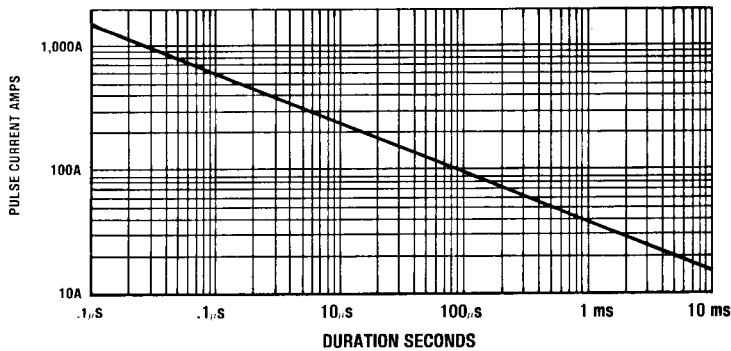


FIGURE 5  
SURGE DURATION vs PULSE CURRENT  
Square Pulse Current vs Duration for Non-Repetitive Pulse