

# DIGITRON SEMICONDUCTORS

**1N3611-1N3614, 1N3957**

**STANDARD RECOVERY RECTIFIERS**

- Microminiature package
- Voidless hermetically sealed glass package
- Triple layer passivation
- Metallurgically bonded
- Standard recovery
- PIV to 1000 Volts

## MAXIMUM RATINGS

<b>Operating Temperature:</b>	-65°C to +175°C
<b>Storage Temperature:</b>	-65°C to +200°C

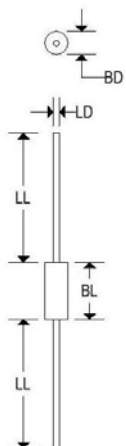
## ELECTRICAL CHARACTERISTICS

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) $I_{F(surge)}$
	VOLTS	VOLTS	AMPS		VOLTS	$\mu$ A		AMPS
			100°C	150°C		25°C	150°C	
<b>1N3611</b>	200	240	1.0	.3	1.1	1.0	300	30
<b>1N3612</b>	400	480	1.0	.3	1.1	1.0	300	30
<b>1N3613</b>	600	720	1.0	.3	1.1	1.0	300	30
<b>1N3614</b>	800	920	1.0	.3	1.1	1.0	300	30
<b>1N3957</b>	1000	1150	1.0	.3	1.1	1.0	300	30

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

## MECHANICAL CHARACTERISTICS

<b>Case:</b>	Digi A
<b>Marking:</b>	Body Painted, Alpha-Numeric
<b>Polarity:</b>	Cathode Band



	Digi A			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.095	-	2.413
BL	-	0.190	-	4.572
LD	0.028	0.032	0.711	0.813
LL	0.700	-	17.800	-

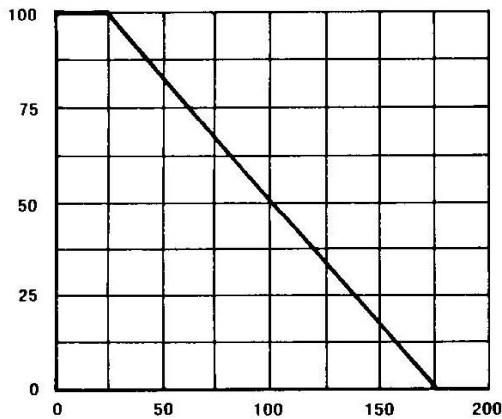
Available Non-RoHS (standard) or RoHS compliant (add PBF suffix).

Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.

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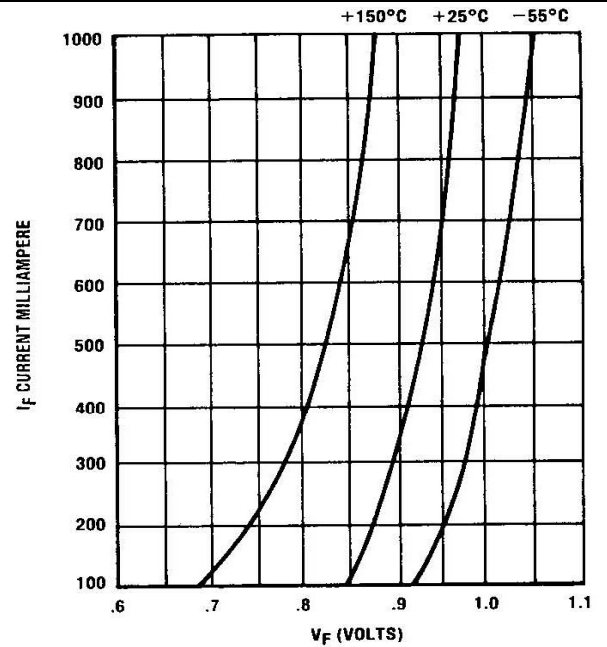
1N3611-1N3614, 1N3957

MILITARY RECTIFIERS



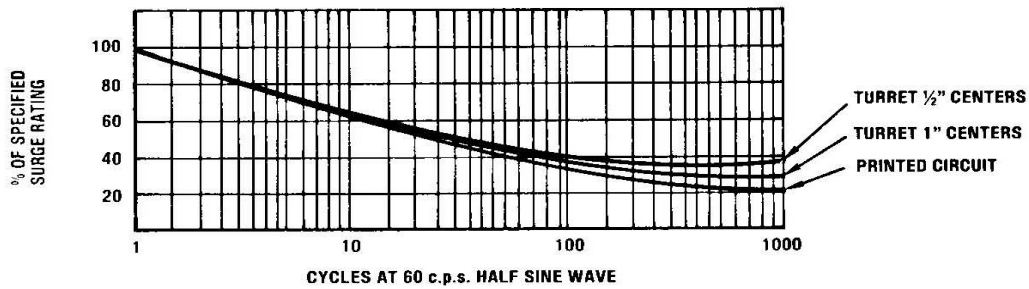
AMBIENT TEMPERATURE (°C)

**FIGURE 2  
TEMPERATURE  
DERATING CURVE**



V<sub>F</sub> (VOLTS)

**FIGURE 3  
TYPICAL FORWARD  
CONDUCTANCE CURVE**



**FIGURE 4  
ALLOWABLE PEAK SURGE vs DURATION**

