

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

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

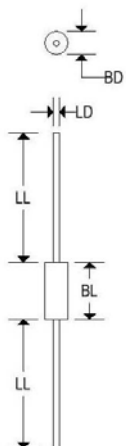
ELECTRICAL CHARACTERISTICS

Type	Peak Inverse Voltage (Min.) PIV	Breakdown Voltage (Min.) B_V @ 100 μ 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	μ A		AMPS
			100°C	150°C		25°C	150°C	
1N3611	200	240	1.0	.3	1.1	1.0	300	30
1N3612	400	480	1.0	.3	1.1	1.0	300	30
1N3613	600	720	1.0	.3	1.1	1.0	300	30
1N3614	800	920	1.0	.3	1.1	1.0	300	30
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.

MECHANICAL CHARACTERISTICS

Case:	Digi A
Marking:	Body Painted, Alpha-Numeric
Polarity:	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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MILITARY RECTIFIERS

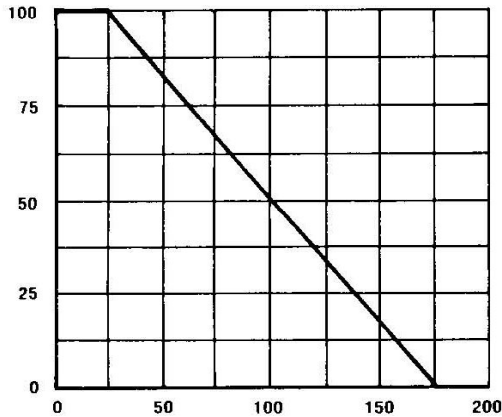


FIGURE 2
TEMPERATURE
DERATING CURVE

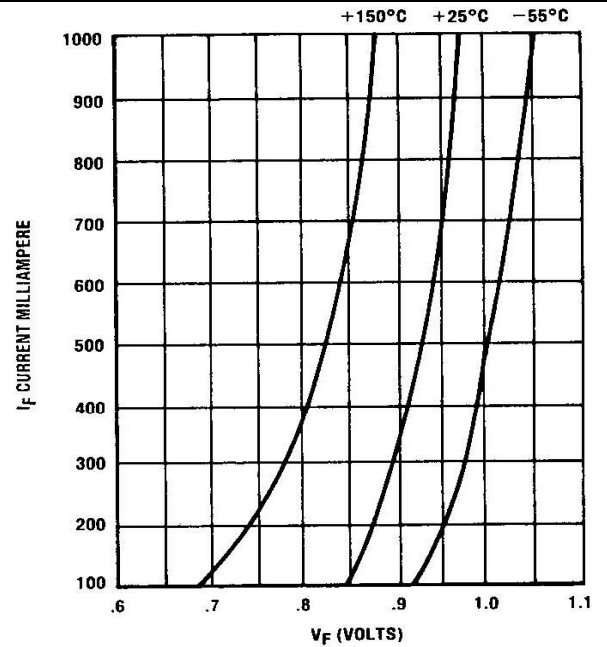


FIGURE 3
TYPICAL FORWARD
CONDUCTANCE CURVE

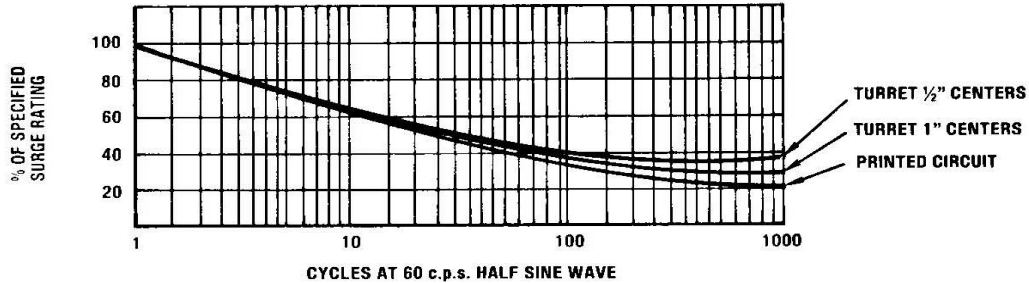


FIGURE 4
ALLOWABLE PEAK SURGE vs DURATION

