

DIGITRON SEMICONDUCTORS

1N5550 – 1N5554

STANDARD RECOVERY GLASS RECTIFIERS

MAXIMUM RATINGS

Junction Temperature:	-65°C to +200°C
Storage Temperature:	-65°C to +175°C
Thermal Resistance:	22°C/W junction to lead @ 3/8" lead length from body
Thermal Impedance:	1.5°C/W ms heating time
Average Rectified Forward Current (I_o):	5 Amps @ $T_L = 55^\circ\text{C}$ (see Note 1)
Forward Surge Current (8.3 ms half sine):	100 Amps
Solder Temperatures:	260°C for 10 s (maximum)

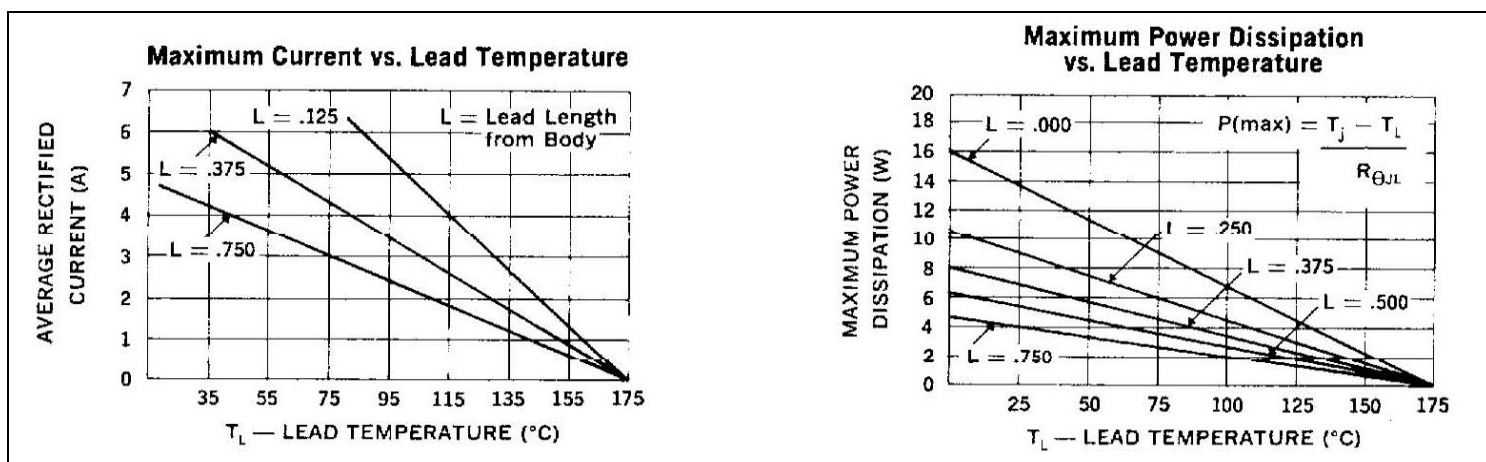
ELECTRICAL CHARACTERISTICS

Type	Minimum Breakdown Voltage V_{BR} @ 50 μA	Working Peak Reverse Voltage V_{RWM}	Average Rectified Current I_{o1} @ $T_L = +55^\circ\text{C}$ Note 1	Average Rectified Current I_{o2} @ $T_A = +55^\circ\text{C}$ Note 2	Forward Voltage V_F @ 9A (pk)		Maximum Reverse Current I_R @ V_{RWM}	Reverse Recovery t_{rr} Note 3
					Min.	Max.		
					VOLTS	VOLTS		
1N5550	220	200	5	3	0.6V(pk)	1.2V(pk)	1.0	2.0
1N5551	440	400	5	3	0.6V(pk)	1.2V(pk)	1.0	2.0
1N5552	660	600	5	3	0.6V(pk)	1.2V(pk)	1.0	2.0
1N5553	880	800	5	3	0.6V(pk)	1.3V(pk)	1.0	2.0
1N5554	1100	1000	5	3	0.6V(pk)	1.3V(pk)	1.0	2.0

Note 1: Rated at $T_L = 55^\circ\text{C}$ at $L = 0.375"$ from body. Derate linearly at 41.6 mA/°C above $T_L = 55^\circ\text{C}$.

Note 2: Derate linearly at 25 mA/°C above $T_A = 55^\circ\text{C}$. This rating is typical for PC boards where thermal resistance from mounting point to ambient is sufficiently controlled where $T_{J(MAX)}$ rating is not exceeded.

Note 3: $I_F = 0.5\text{ A}$, $I_{RM} = 1.0\text{ A}$, $I_{R(REC)} = .250\text{ A}$

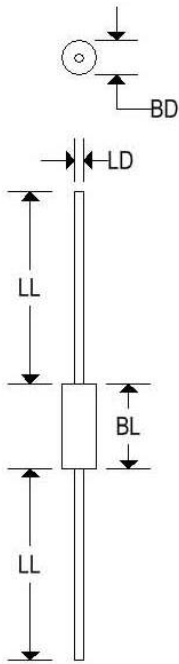


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MECHANICAL CHARACTERISTICS

Case:	Digi F
Marking:	Body painted, alpha-numeric
Polarity:	Cathode band



	Digi F			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.135	-	3.429
BL	-	0.180	-	4.572
LD	0.038	0.042	0.965	1.067
LL	1.000	-	25.400	-

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.