

DIGITRON SEMICONDUCTORS

1N3643-1N3647
1N4254-1N4257
1N5181-1N5184

HIGH VOLTAGE RECTIFIERS

MAXIMUM RATINGS

Parameter	Value
Operating and Storage Temperature:	-65 to +175°C
Thermal resistance	38° junction to lead at 3/8" lead length from body
Average rectified forward current (I_o)	0.250 amps @ $T_A = 55^\circ\text{C}$ 0.150 amps @ $T_A = 100^\circ\text{C}$
1N3643-1N3647	0.250 amps @ $T_A = 55^\circ\text{C}$ 0.150 amps @ $T_A = 100^\circ\text{C}$
1N4254-1N4257	0.250 amps @ $T_A = 55^\circ\text{C}$ 0.150 amps @ $T_A = 100^\circ\text{C}$
1N5181-1N5184	0.100 amps @ $T_A = 55^\circ\text{C}$ 0.060 amps @ $T_A = 100^\circ\text{C}$
Solder temperatures	260°C for 10 s maximum

ELECTRICAL CHARACTERISTICS

Type	Working peak reverse voltage V_{RWM}	Average rectified current I_o		Maximum forward voltage V_F	Maximum reverse current I_R @ V_{RWM}				Maximum surge current
	Volts	mA		Volts	μA				Amps
		55°C	100°C		25°C	55°C	125°C	175°C	
1N3643	1000	250	150	5.0 ⁽¹⁾	5	-	-	-	14
1N3644	1500	250	150	5.0 ⁽¹⁾	5	-	-	-	14
1N3645	2000	250	150	5.0 ⁽¹⁾	5	-	-	-	14
1N3646	2500	250	150	5.0 ⁽¹⁾	5	-	-	-	14
1N3647	3000	250	150	5.0 ⁽¹⁾	5	-	-	-	14
1N4254	1500	250	150	3.5 ⁽²⁾	1	-	20	-	10
1N4255	2000	250	150	3.5 ⁽²⁾	1	-	20	-	10
1N4256	2500	250	150	3.5 ⁽²⁾	1	-	20	-	10
1N4257	3000	250	150	3.5 ⁽²⁾	1	-	20	-	10
1N5181	4000	100	60	10 ⁽²⁾	-	5	-	1000	4
1N5182	5000	100	60	10 ⁽²⁾	-	5	-	1000	4
1N5183	7500	100	60	10 ⁽²⁾	-	5	-	1000	4
1N5184	10000	100	60	10 ⁽²⁾	-	5	-	1000	4

Note 1: V_F @ 250mA

Note 2: V_F @ 100mA

DIGITRON SEMICONDUCTORS

1N3643-1N3647

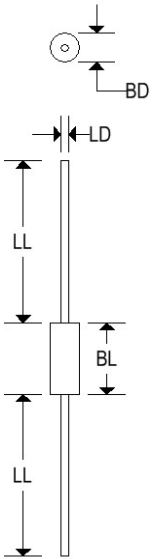
1N4254-1N4257

1N5181-1N5184

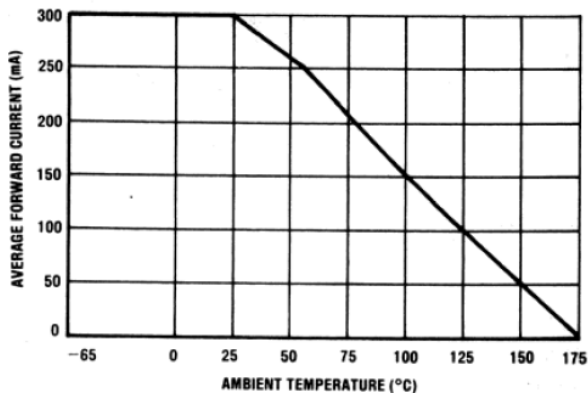
HIGH VOLTAGE RECTIFIERS

MECHANICAL CHARACTERISTICS

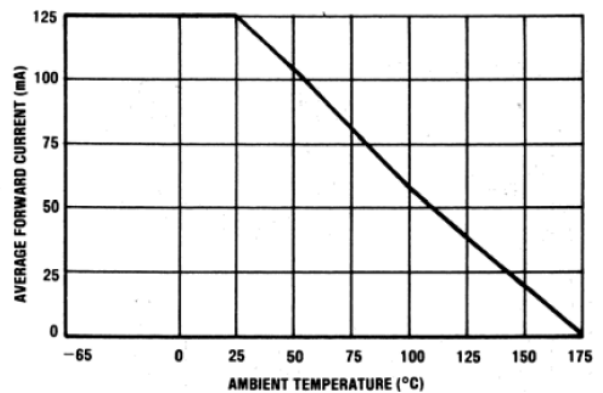
Case:	Digi L
Marking:	Body Painted, Alpha-Numeric
Polarity:	Cathode Band



	Digi L			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.110	-	2.794
BL	-	0.235	-	5.969
LD	0.028	0.032	0.711	0.813
LL	1.000	-	25.400	-



1N3643-1N3647 AND 1N4254-1N4257



1N5181-1N5184