

# 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 ( $I_o$ )	
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 <sup>(1)</sup>	5	-	-	-	14
1N3644	1500	250	150	5.0 <sup>(1)</sup>	5	-	-	-	14
1N3645	2000	250	150	5.0 <sup>(1)</sup>	5	-	-	-	14
1N3646	2500	250	150	5.0 <sup>(1)</sup>	5	-	-	-	14
1N3647	3000	250	150	5.0 <sup>(1)</sup>	5	-	-	-	14
1N4254	1500	250	150	3.5 <sup>(2)</sup>	1	-	20	-	10
1N4255	2000	250	150	3.5 <sup>(2)</sup>	1	-	20	-	10
1N4256	2500	250	150	3.5 <sup>(2)</sup>	1	-	20	-	10
1N4257	3000	250	150	3.5 <sup>(2)</sup>	1	-	20	-	10
1N5181	4000	100	60	10 <sup>(2)</sup>	-	5	-	1000	4
1N5182	5000	100	60	10 <sup>(2)</sup>	-	5	-	1000	4
1N5183	7500	100	60	10 <sup>(2)</sup>	-	5	-	1000	4
1N5184	10000	100	60	10 <sup>(2)</sup>	-	5	-	1000	4

Note 1:  $V_F @ 250\text{mA}$

Note 2:  $V_F @ 100\text{mA}$

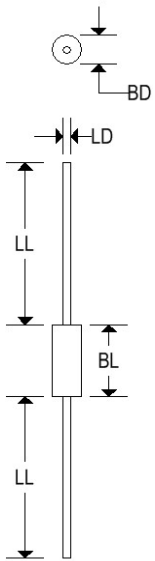
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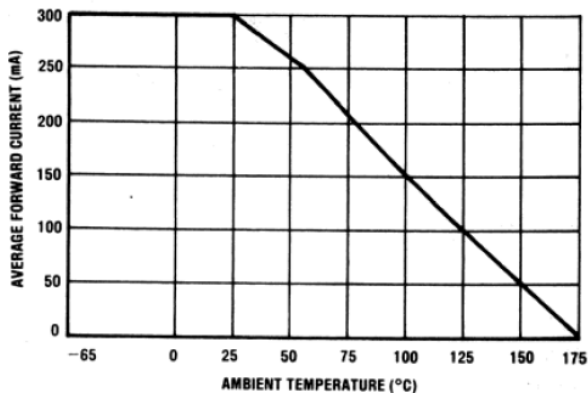
HIGH VOLTAGE RECTIFIERS

## MECHANICAL CHARACTERISTICS

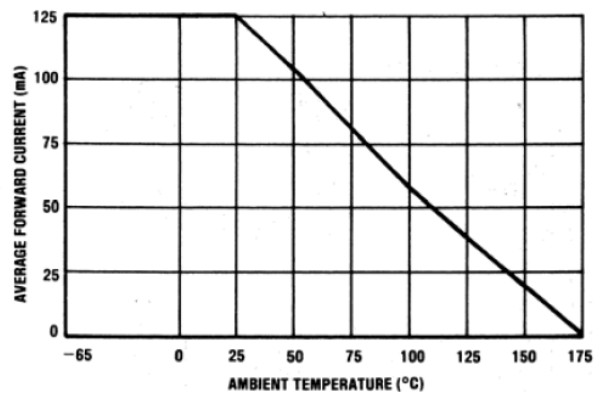
<b>Case:</b>	Digi L
<b>Marking:</b>	Body Painted, Alpha-Numeric
<b>Polarity:</b>	Cathode Band



	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