



High-reliability discrete products
and engineering services since 1977

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

HIGH VOLTAGE RECTIFIERS

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

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°C 0.150 amps @ T _A = 100°C
1N4254-1N4257	0.250 amps @ T _A = 55°C 0.150 amps @ T _A = 100°C
1N5181-1N5184	0.100 amps @ T _A = 55°C 0.060 amps @ T _A = 100°C
Solder temperatures	260°C for 10 s maximum

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Type	Working peak reverse voltage	Average rectified current		Maximum forward voltage	Maximum reverse current				Maximum surge current
	V _{RWM}	I _O		V _F	I _R @ V _{RWM}				
	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



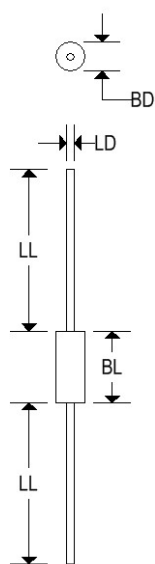
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MECHANICAL CHARACTERISTICS

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	-

