

# DIGITRON SEMICONDUCTORS

1N4149, 1N4151-1N4154,  
1N4446-1N4449

SWITCHING RECTIFIER

## MAXIMUM RATINGS @ 25°C

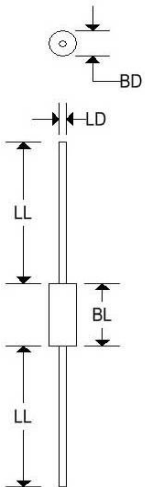
Parameter	Symbol	1N4149	1N4151	1N4152	1N4153	1N4154	1N4446	1N4447	1N4448	1N4449
Peak reverse voltage	$V_{RM}$	75V	75V	40V	75V	35V	75V	75V	75V	75V
Average rectified current	$I_o$	200mA								
Forward surge current, 8.3ms	$I_{FSM}$	500mA								
Operating junction temperature range	$T_J$	-65° to 150°C								
Storage temperature range	$T_{stg}$	-65° to 200°C								

## ELECTRICAL CHARACTERISTICS (@ 25°C unless otherwise noted)

Part number	Peak inverse voltage	Maximum forward voltage					Reverse current		Reverse current		Junction capacitance	Reverse recovery time
	PIV	$V_F$					$I_{R1}$	$I_{R2}$	$T_A = 150^\circ C$		$C_J$	$t_{rr}$
									$V_R = 0$			
	Vdc	nA		µA		pF	ns					
@10mA		@20mA	@30mA	@50mA	@100mA			Min	Max	Min	Max	
1N4149	75	1.0	-	-	-	-	20	25	20	50	4	4
1N4151	75	-	-	-	1.0	-	50	50	50	50	4	2
1N4152	40	0.81	0.88	-	-	-	-	50	-	50	2	2
1N4153	75	0.81	0.88	-	-	-	-	50	-	50	2	2
1N4154	35	-	-	1.0	-	-	25	100	25	100	4	2
1N4446	75	-	1.0	-	-	-	20	25	20	50	4	4
1N4447	75	-	1.0	-	-	-	20	25	20	50	4	4
1N4448	75	-	-	-	-	1.0	20	25	20	50	4	4
1N4449	75	-	-	1.0	-	-	20	25	20	50	2	4

## MECHANICAL CHARACTERISTICS

Case:	DO-35
Marking:	Body painted, alpha-numeric
Polarity:	Cathode band



	DO-35			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.055	0.090	1.400	2.290
BL	0.120	0.200	3.050	5.080
LD	0.018	0.022	0.460	0.560
LL	1.000	1.500	25.400	38.100

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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