

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

SWITCHING 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

		1N4149	1N4151	1N4152	1N4153	1N4154	1N4446	1N4447	1N4448	1N4449
Parameter	Symbol	75V	75V	40V	75V	35V	75V	75V	75V	75V
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 ($T_A = 25^\circ\text{C}$ unless otherwise specified)

Part number	Peak inverse voltage	Maximum forward voltage					Reverse current		Reverse current		Junction capacitance	Reverse recovery time
	PIV	V _F					I _{R1}		I _{R2}	C _J	t _{rr}	
									T _A = 150°C	V _R = 0		
	Vdc	@10mA	@20mA	@30mA	@50mA	@100mA	nA		μA		pF	ns
						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



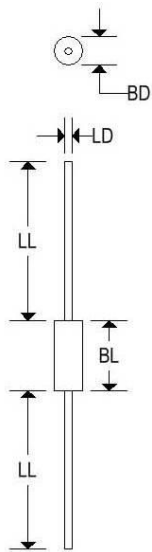
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MECHANICAL CHARACTERISTICS

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



	DO-35			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.065	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