

High-reliability discrete products and engineering services since 1977

1N4444

SWITCHING RECTIFIER

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

Rating	Symbol	Value	Unit
Peak repetitive reverse voltage	V_{RRM}	70	V
Peak working reverse voltage	V_{RWM}	50	V
Average forward current	Io	200	mA
Forward steady-state current	I _F	250	mA
Recurrent peak forward current	i _f	600	mA
Peak forward surge current (1.0μs pulse)	I _{FSM}	4000	mA
Power dissipation	P _D	500	mW
Operating and storage temperature range	T _J , T _{stg}	-65 to +200	°C

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

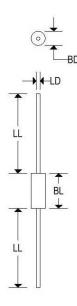
Parameter	Symbol	Test Condition Min		Max	Unit
Reverse current	I _R	V _R = 50V	V _R = 50V - 5		nA
Reverse current	I _R	V _R = 50V, T _A = 150°C	-	50	μΑ
Breakdown voltage	BV_R	I _R = 5.0μA	70	-	V
Forward voltage	V _F	I _F = 0.1mA	0.440	0.550	V
		I _F = 1.0mA	0.560	0.680	
		I _F = 10mA	0.690	0.820	
		I _F = 100mA	0.850	1.0	
Capacitance	С	V _R = 0V - 2.0		pF	
Reverse recovery time	t _{rr}	I _F = I _R = 10mA, Recover to 1.0mA - 7.0		ns	



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MECHANICAL CHARACTERISTICS

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



	DO-35				
	Inches		Millim	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	

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