

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	I_O	200	mA
Forward steady-state current	I_F	250	mA
Recurrent peak forward current	i_f	600	mA
Peak forward surge current (1.0 μ s pulse)	I_{FSM}	4000	mA
Power dissipation	P_D	500	mW
Operating and storage temperature range	T_J, T_{stg}	-65 to +200	$^{\circ}$ C

ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}$ C unless otherwise specified)

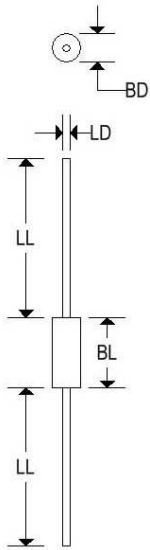
Parameter	Symbol	Test Condition	Min	Max	Unit
Reverse current	I_R	$V_R = 50V$	-	50	nA
Reverse current	I_R	$V_R = 50V, T_A = 150^{\circ}C$	-	50	μ A
Breakdown voltage	BV_R	$I_R = 5.0\mu A$	70	-	V
Forward voltage	V_F	$I_F = 0.1mA$	0.440	0.550	V
		$I_F = 1.0mA$	0.560	0.680	
		$I_F = 10mA$	0.690	0.820	
		$I_F = 100mA$	0.850	1.0	
Capacitance	C	$V_R = 0V$	-	2.0	pF
Reverse recovery time	t_{rr}	$I_F = I_R = 10mA, \text{Recover to } 1.0mA$	-	7.0	ns

1N4444

SWITCHING RECTIFIER

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