

### 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
Maximum peak reverse voltage	$V_{RM}$	40	V
Maximum reverse voltage	$V_R$	30	V
Maximum forward DC current	$I_F$	250	mA
Maximum average forward current	$I_{F(AV)}$	200	mA
Maximum surge forward current @ $t_p = 1\mu s$	$I_{FSM}$	4	A
Power dissipation	$P_D$	500	mW
Maximum junction temperature	$T_J$	200	°C
Storage temperature range	$T_{stg}$	-65 to +200	°C

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

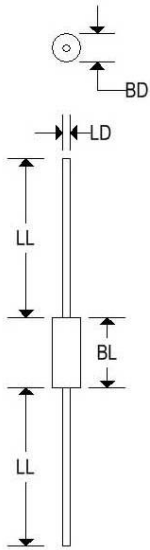
Parameter	Symbol	Test Condition	Min	Max	Unit
Reverse current	$I_R$	$V_R = 30V$	-	50	nA
		$V_R = 30V, T_J = 150^\circ C$	-	50	$\mu A$
Forward voltage	$V_F$	$I_F = 0.1mA$	0.42	0.54	V
		$I_F = 1.0mA$	0.52	0.64	
		$I_F = 10mA$	0.64	0.72	
		$I_F = 50mA$	0.80	0.92	
		$I_F = 200mA$	-	1.00	
Reverse breakdown voltage	$V_{(BR)R}$	$I_R = 5\mu A$ (pulsed)	40	-	V
Diode capacitance	$C_d$	$f = 1MHz, V_R = 0$	-	4	pF
Reverse recovery	$t_{rr}$	$I_F = 10mA, V_R = 6V, R_L = 100\Omega$	-	4	ns

# 1N4450

## SWITCHING RECTIFIER

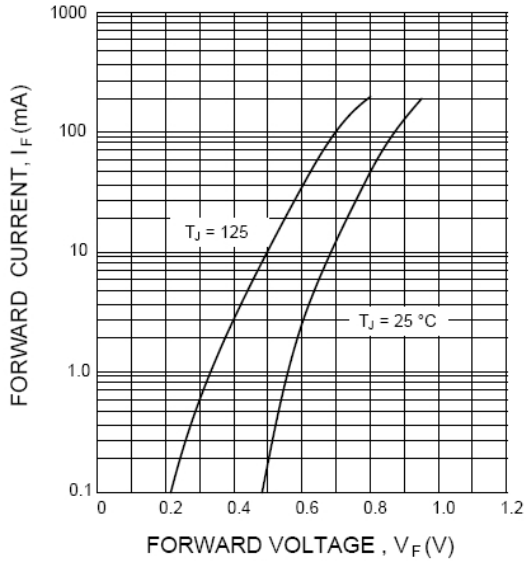
### MECHANICAL CHARACTERISTICS

<b>Case:</b>	DO-35
<b>Marking:</b>	Body painted, alpha-numeric
<b>Polarity:</b>	Cathode band

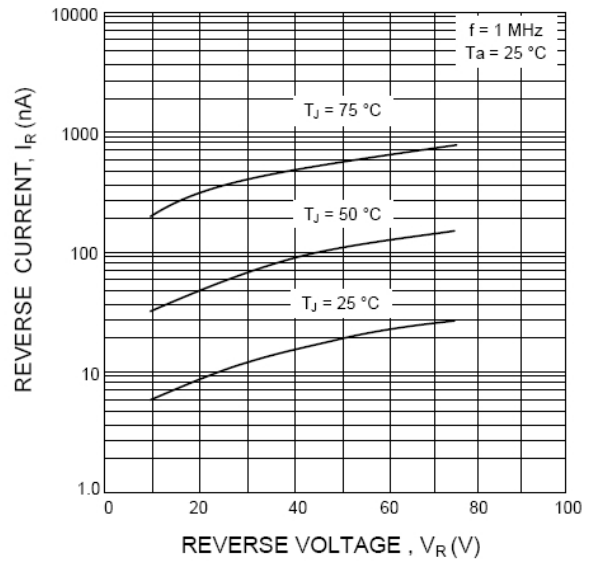


	DO-35			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.055	0.090	1.400	2.290
BL	0.120	0.200	3.050	5.080
LD	0.018	0.022	0.460	0.560
LL	1.000	1.500	25.400	38.100

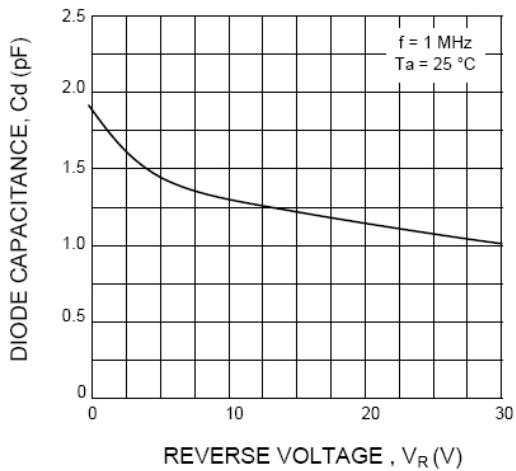
**FIG1. - FORWARD CURRENT VS. FORWARD VOLTAGE**



**FIG.2 - REVERSE CURRENT VS. JUNCTION TEMPERATURE**



**FIG3. - CAPACITANCE BETWEEN TERMINALS VS. REVERSE VOLTAGE**



**FIG. 4 - REVERSE RECOVERY TIME VS. FORWARD CURRENT**

