

Features

- Fast switching
- 500mw power dissipation
- High temperature soldering guaranteed 250 C/10 seconds at terminals

Mechanical Data

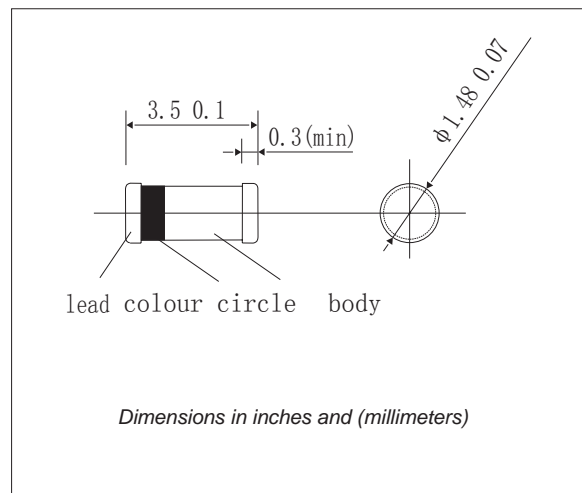
Case: JEDEC Minimelf molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbol marking on body

Mounting Position: Any

Weight : 0.03grams



Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	1N4148	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	100	VOLTS
Maximum RMS voltage	V_{RMS}	75	VOLTS
Maximum average forward rectified current 0.375" (9.5mm) lead length at $T_A=25^\circ\text{C}$	$I_{(AV)}$	150	mAmps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	500	mAmps
Maximum instantaneous forward voltage at 10mA	V_F	1.0	Volts
Maximum DC reverse current $T_A=25^\circ\text{C}$ $V_R=75\text{V}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$ $V_R=20\text{V}$	I_R	5.0 50	μA
Maximum reverse recovery time (NOTE 1)	t_{rr}	4.0	ns
Typical junction capacitance (NOTE 2)	C_J	4.0	pF
Operating junction and storage temperature range	T_J, T_{STG}	-65 to +200	$^\circ\text{C}$

NOTES:

1. Test condition: $I_F=10\text{mA}$, $I_R=10\text{mA}$, $I_{rr}=1\text{mA}$, $V_R=6\text{V}$, $R_L=100\Omega$.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts

Ratings And Characteristic Curves

LL4148

