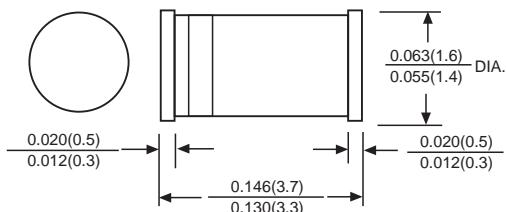


LL4148

SMALL SIGNAL SWITCHING DIODE

MINI MELF



Dimensions in inches and (millimeters)

FEATURES

- Silicon epitaxial planar diode
- Fast switching diodes
- 500mw power dissipation
- High temperature soldering guaranteed 250°C/10S at terminals

MECHANICAL DATA

Case: MINI MELF glass sealed envelope.

Terminals: Solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.002 ounce, 0.05 grams

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	LL4148	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 TA=75°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 TA=25°C V _R =75V at rated DC blocking voltage TA=100°C V _R =20V	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	°C

NOTES:

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

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

RATINGS AND CHARACTERISTIC CURVES LL4148

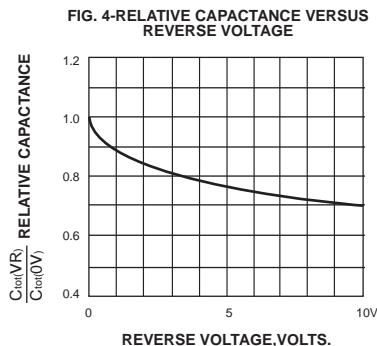
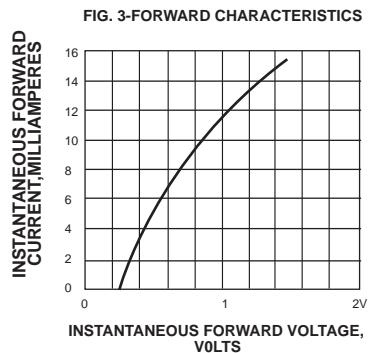
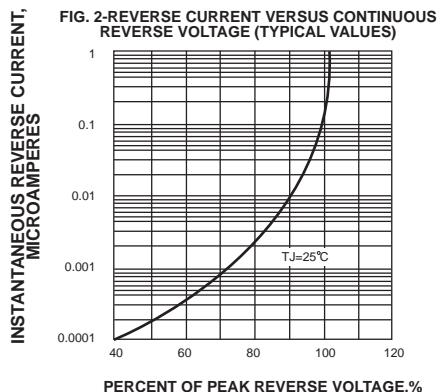
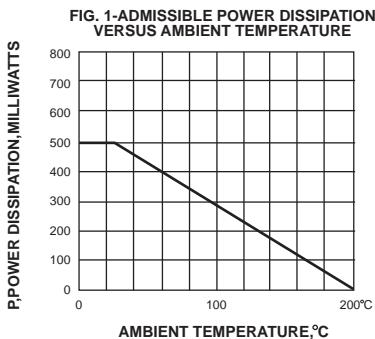
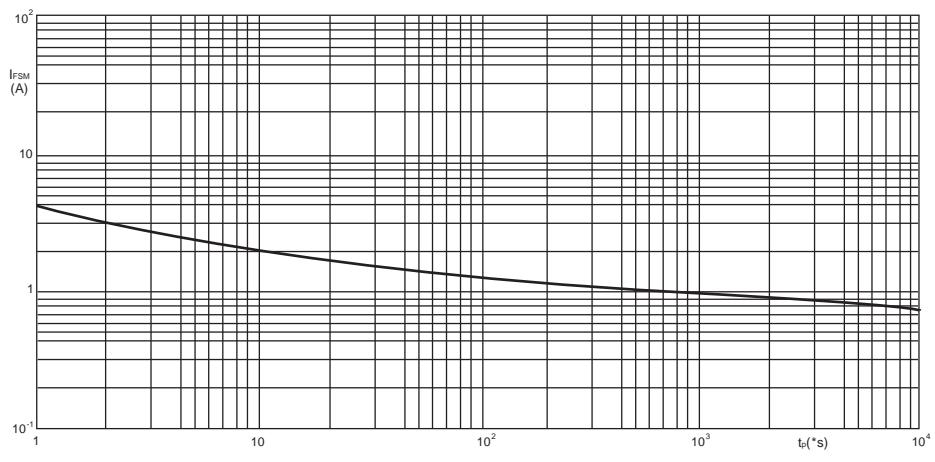


FIG. 5-MAXIMUM PERMISSIBLE NON-REPETITIVE PEAK FORWARD CURRENT AS A FUNCTION OF PULSE DURATION



Based on square wave currents. T_J=25° prior to surge.