



Silicon Epitaxial Planar Diode

Voltage 100 volts Power 500mwatts

Mini-MELF/LL-34



FEATURES

- Fast switching speed
- * Surface mount package ideally suited for automatic insertion.
- Silicon epitaxal planar construction
 In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

Case: Mini Melf, Glass Terminals: Solderable per MIL-STD-750, method 2026 Polarity: Cathode Band Marking: Cathode Band only Weight: 0.03 grams

Dimensions in inches and (millimeters

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%.

PARAMETER	SYMBOLS	1N4148WS	UNITS
Peak Reverse Voltage	Vrm	100	Volts
Maximum average forward current at Ta=25°C and f>=50Hz	lav	150	mAmps
Surge forward current at t<1s and Tj=25°C	Іғѕм	500	mAmps
Power Dissipation Derate Above 25°C	P _{TOT}	500	mWatts
Maximum Forward Voltage at I _F =10mA	VF	1.0	Volts
Maximum Leakage Current at $V_R=20V$ at $V_R=75V$ at $V_R=20V,T_J=150^{\circ}C$	I _R	2.5 5 50	nA uA uA
Maximum Capacitance at V _F =V _R =0	Cı	4.0	pF
Maximum Reverse Recovery Time from I_F=-I_R=10mA to I_RR=-1mA, V_R=6V R_L=100\Omega	t _{rr}	4.0	ns
Maximum Thermal Resistance	$R_{\Theta JA}$	300	°C/W
Junction Temperature and Storage Temperature Range	TJ, T S	-65 to +175	°C

NOTES.

 $1.CJatV_{R}=0, f=1MHZ$.

2.From I_F=10mA to I_R=1mA, V_R=6 volts, R_L=100 Ω

RATINGS AND CHARACTERISTIC CURVES



Fig.1 Admissible Repetitive Peak Forward Current Versus Pulse Duration

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1.0

2

200

300

100

0

100

AMBIENT TEMPERATURE

0.9

0.8

0.7

0

2

4

6

REVERSE VOLTAGE, VOLTS

8