

LL4148

FEATURES

- Silicon Epitaxial Planer Diode
- Fast Switching speed
- General purpose switching application
- Also available in the SOD-123 packages as the 1N4148W, And the Quadro MELF as the LS4148, and the DO-35 as the 1N4148
- RoHS and REACH Compliance



MECHANICAL DATA

Case	Mini-Melf
Terminals	Solderable per MIL-STD-202E, Method 208C
Polarity	Color band denotes cathode end
Mounting position	Any
Weight	0.00175 Ounce, 0.05 gram, approx

MAXIMUM RATINGS (T_{Ambient}=25°C unless noted otherwise)

Parameter	Conditions	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage		V _{RRM}	100	V
Max Repetitive Peak Reverse Voltage		V _{RMS}	75	V
Forward Continuous Current		I _{FM}	300	mA
Max Reverse Recovery Time	I _F = 10mA, I _R =10mA, I _{RR} =1mA, R _L =100Ω	T _{rr}	4	ns
Non-Repetitive Peak Forward Surge Current	T=1.0μS T=1.0S	I _{FSM}	2.0	Amps
			1.0	
Power dissipation	Note 1	P _{TOT}	500	mW
Operating and Storage Temperature		T _J , T _{STG}	-65 to +175	°C

ELECTRICAL CHARACTERISTICS (T_{Ambient}=25°C unless noted otherwise)

Parameter	Conditions	Symbol	Value	Unit
Max Instantaneous Forward Voltage	@10mA	V _F	1.0	V
Max DC Reverse Current at Rated DC Blocking Voltage	V _R =75V	I _R	5.0	mA
	V _R =75V, T _J =150°C		50	
	V _R =25V, T _J =150°C		30	
Typical Junction Capacitance	V _f =1V, f=1MHZ	C _J	4.0	pF
Typical Thermal Resistance		R _{θJA}	300	°C/W

Note : (1) Valid provided leads at a distance of 0.31" (8mm) from case are kept at ambient temperature

RATINGS AND CHARACTERISTIC CURVE LL4148

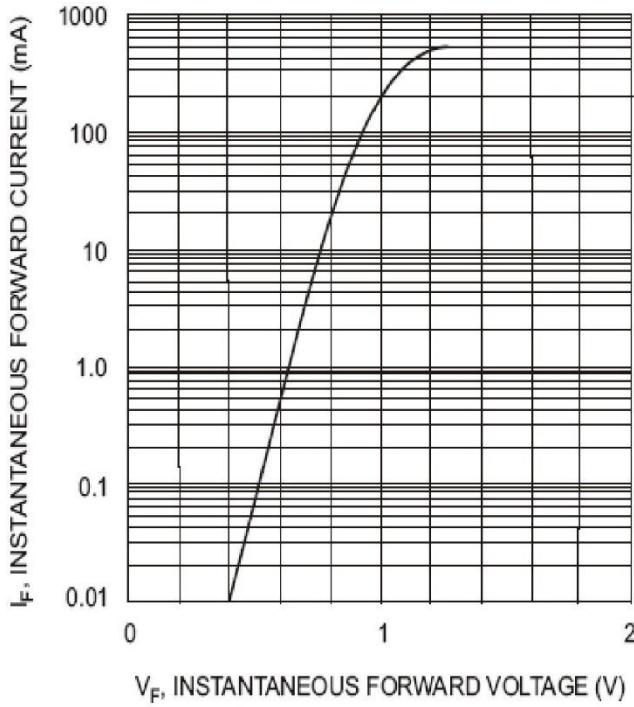


Fig. 1 Forward Characteristics

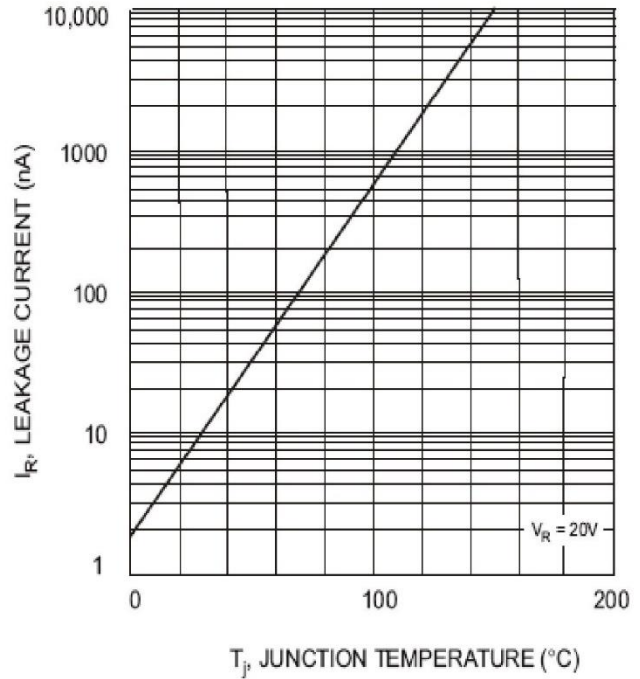
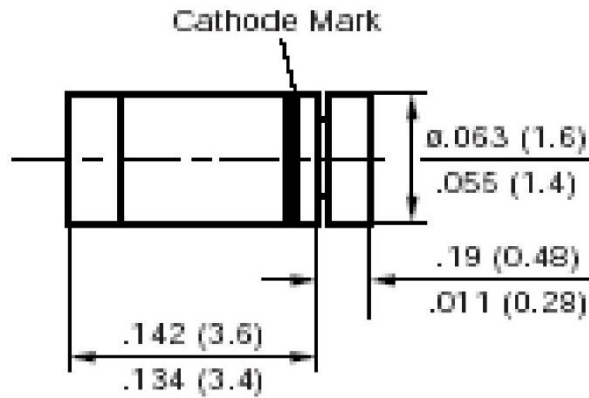


Fig. 2, Leakage Current vs Junction Temperature

DIMENSIONS in inch (mm)



MINI-MELF