Elektronische Bauelemente

LL4148

500mW, 75V

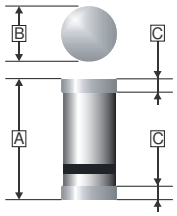
Hermetically Sealed Glass Fast Switching Diodes

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

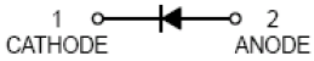
FEATURES

- Fast Switching Device
- Surface Device Type Mounting
- Hermetically Sealed Glass
- Compression Bonded Construction
- All External Surfaces are Corrosion Resistant and Terminals are Readily Solderable
- Matte Tin (Sn) Terminal Finish
- Color Band Indicates Negative Polarity

SOD-80 (Mini-MELF)



REF.	Millimeter	
	Min.	Max.
A	3.30	3.70
B	1.39	1.60
C	0.28	0.50



PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-80	2.5K	7 inch

ORDER INFORMATION

Part Number	Type
LL4148	Lead (Pb)-free
LL4148-C	Lead (Pb)-free and Halogen-free

ABSOLUTE MAXIMUM RATINGS (T_A=25℃ unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Power Dissipation	P_D	500	mW
Working Inverse Voltage	W_{IV}	75	V
Average Rectified Current	I_O	150	mA
Non-repetitive Peak Forward Current	I_{FM}	450	mA
Peak Forward Surge Current (Pulse Width=1 μsecond)	I_{FSURGE}	2	A
Junction, Storage Temperature	T_J, T_{STG}	-55~150	℃

ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise specified)

Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Breakdown Voltage	B_V	100	-	-	V	I_R=100μA
		75	-	-		I_R=5μA
Reverse Leakage Current	I_R	-	-	25	nA	V_R=20V
		-	-	5	μA	V_R=75V
Forward Voltage	V_F	-	-	1	V	I_F=10mA
Reverse Recovery Time	T_{RR}	-	4	-	nS	I_F=10mA, V_R=6V, R_L=100Ω, I_{RR}=1mA
Capacitance	C	-	4	-	pF	V_R=0, f=1MHz

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RATINGS AND CHARACTERISTIC CURVES

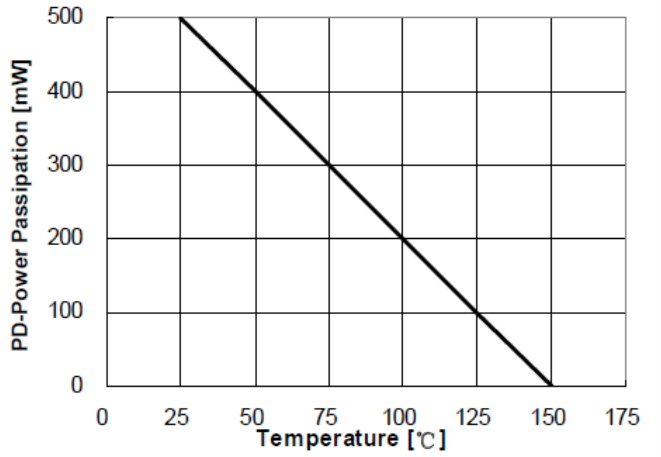


Figure 1. Power Dissipation vs Ambient Temperature

Valid provided leads at a distance of 0.8mm from case are kept at ambient temperature

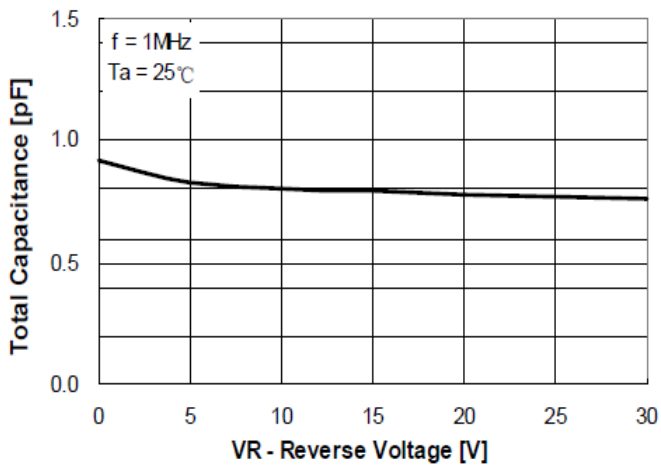


Figure 2. Total Capacitance

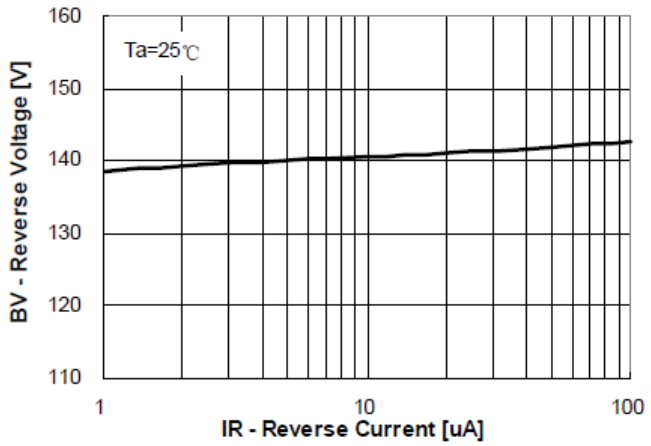


Figure 3. Reverse Voltage vs Reverse Current
BV – 1.0uA to 100uA

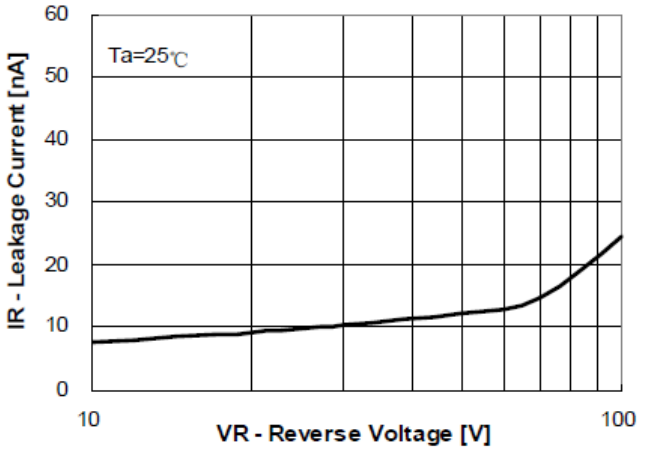


Figure 4. Reverse Current vs Reverse Voltage
IR – 10V to 100V

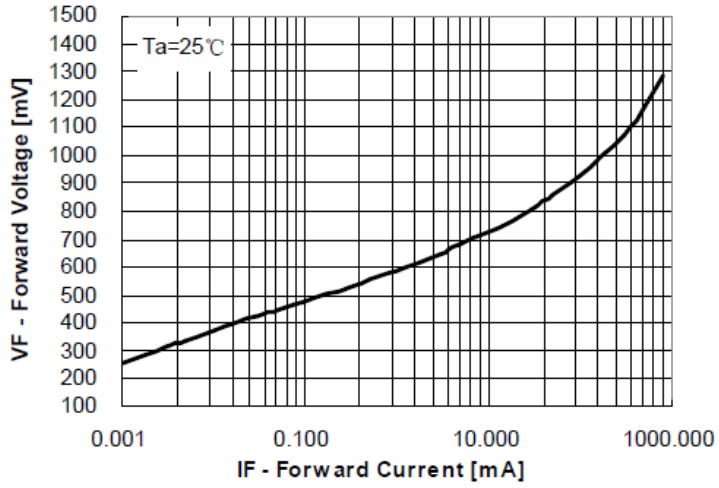


Figure 5. Forward Voltage vs Forward Current
VF – 0.001mA to 800mA

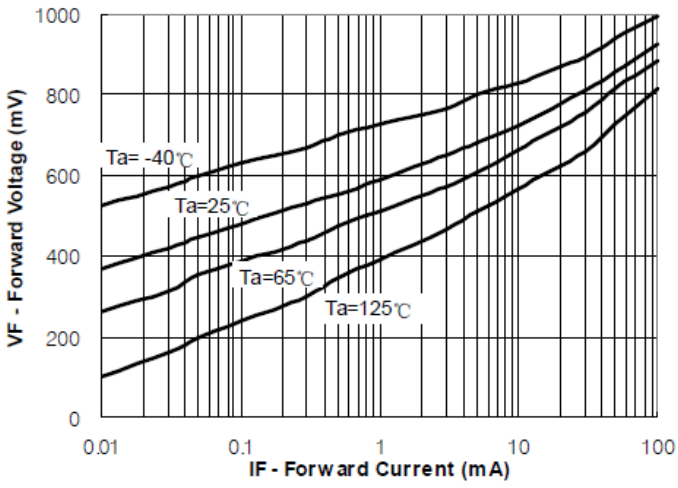


Figure 6. Forward Voltage vs Ambient Temperature
VF – 0.01mA to 100mA (-40 to +125 Deg C)