

LL4151

FAST SWITCHING SURFACE MOUNT DIODES

VOLTAGE 50 Volts **POWER** 500 mWatts

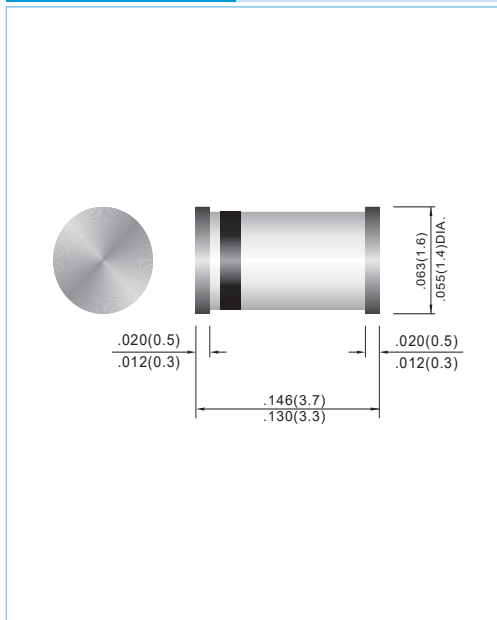
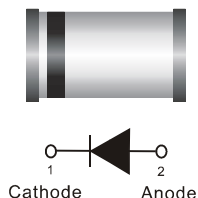
MINI-MELF/LL-34 Unit : inch (mm)

FEATURES

- Fast switching Speed.
- Surface Mount Package Ideally Suited For Automatic Insertion.
- Silicon Epitaxial 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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	LL4151	UNITS
Reverse Voltage	V_R	50	V
Peak Reverse Voltage	V_{RM}	75	V
Maximum Average Forward Current at $T_A=25^\circ\text{C}$ And $f \geq 50\text{Hz}$	$I_{F(AV)}$	150	mA
Surge Forward Current at $t < 1\text{s}$ and $T_J=25^\circ\text{C}$	I_{FSM}	500	mA
Power Dissipation at $T_{amb}=25^\circ\text{C}$	P_{TOT}	500	mW
Maximum Forward Voltage at $I_F=50\text{mA}$	V_F	1.0	V
Maximum Leakage Current at $V_R=50\text{V}$	I_R	0.05	μA
Maximum Capacitance (Note 1)	C_J	2	pF
Maximum Reverse Recovery Time (Note 2)	t_{tr}	2	ns
Typical Thermal Resistance	$R_{\theta JA}$	350	$^\circ\text{C} / \text{W}$
Junction Temperature and Storage Temperature Range	T_J, T_S	-65 to +175	$^\circ\text{C}$

NOTE:

1. C_J at $V_R=0$, $f=1\text{MHz}$
2. From $I_F=10\text{mA}$ to $I_R=1\text{mA}$, $V_R=6\text{Volts}$, $R_L=100\Omega$

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Characteristics ($T_j = 25^\circ\text{C}$ unless otherwise specified)

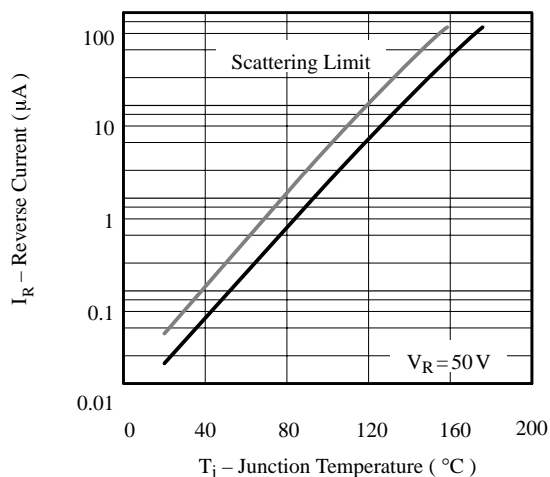


Figure 1. Reverse Current vs. Junction Temperature

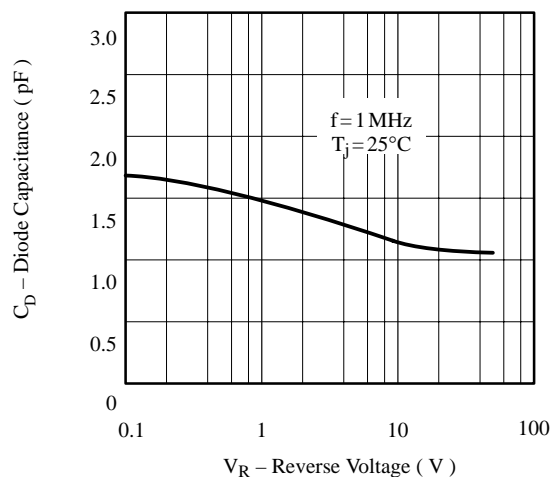


Figure 3. Diode Capacitance vs. Reverse Voltage

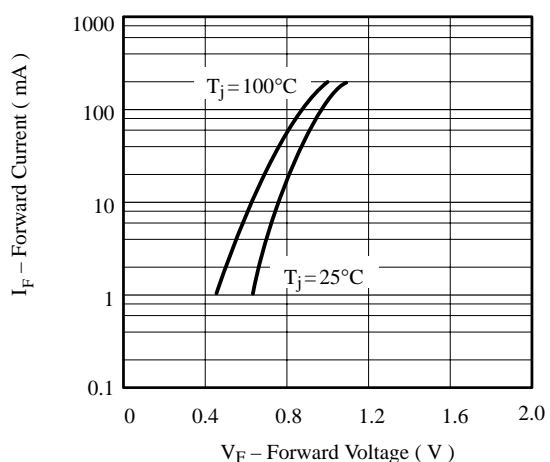
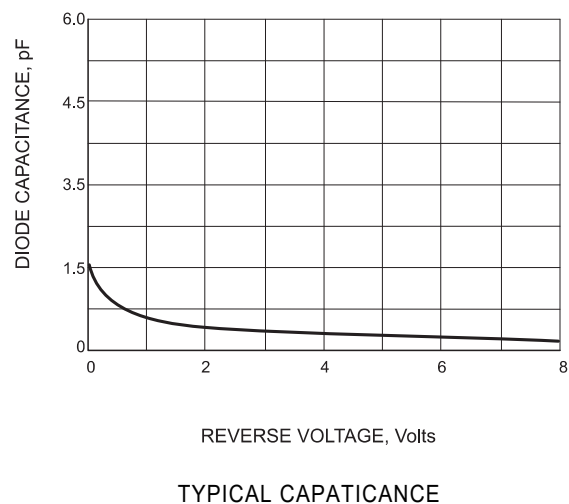
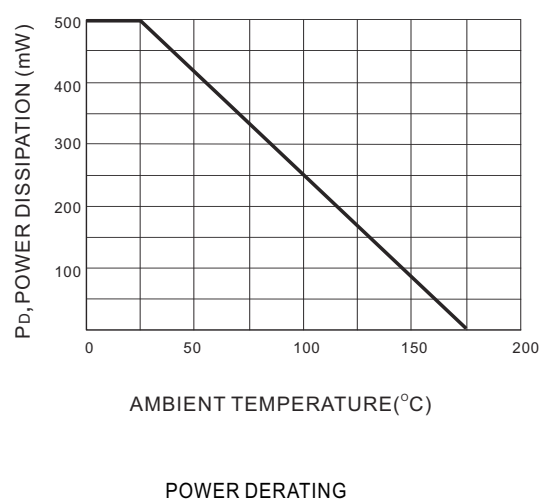


Figure 2. Forward Current vs. Forward Voltage

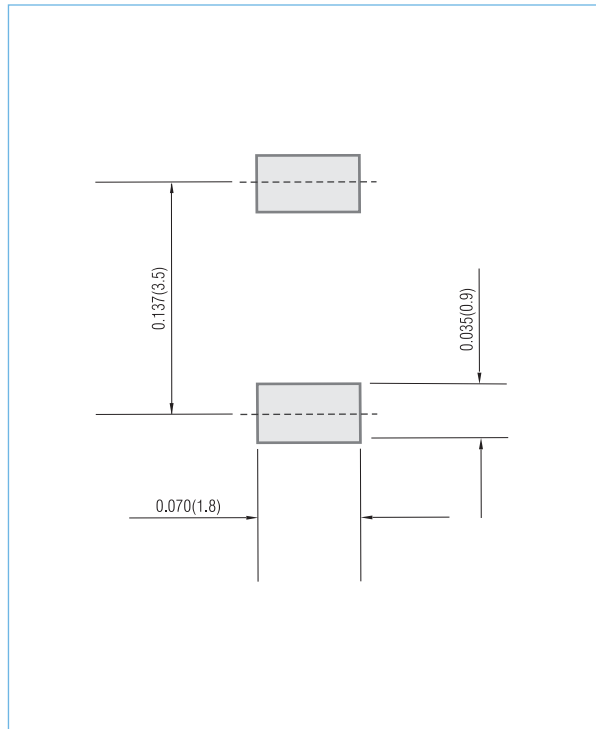


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MOUNTING PAD LAYOUT

MINI-MELF

Unit: inch (mm)



ORDER INFORMATION

- Packing information
 - T/R - 10K per 13" plastic Reel
 - T/R - 2.5K per 7" plastic Reel

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Part No_packing code_Version

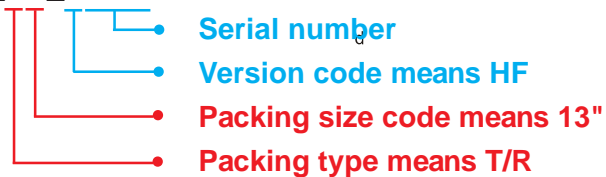
LL4151_R1_10001

LL4151_R2_10001

For example :

RB500V-40 **R2** **00001**

Part No.



Packing Code XX				Version Code XXXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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