

LL4620~LL4125

SURFACE MOUNT ZENER DIODES

VOLTAGE 3.3 to 47 Volts

POWER 500 mWatts

MINI-MELF / LL34

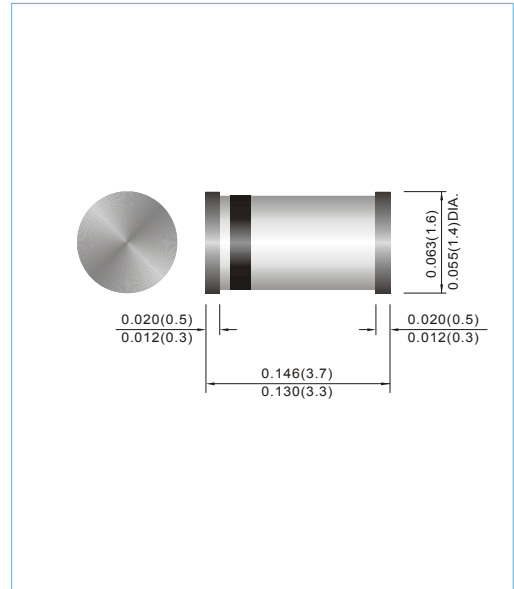
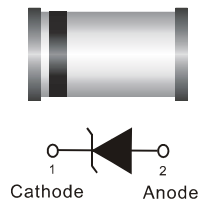
Unit : inch(mm)

FEATURES

- Planar Die construction
- 500mW Power Dissipation
- Low current operation at 250uA
- Ideally Suited for Automated Assembly Processes
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: Molded Glass MINI-MELF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See Diagram Below
- Mounting Position: Any



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

Parameter	Symbol	Value	Units
Power Dissipation at TA = 25°C	P _{TOT}	500	mW
Junction Temperature	T _J	175	°C
Storage Temperature Range	T _{stg}	-65 to +175	°C

Parameter	Symbol	Min.	Typ.	Max.	Units
Thermal Resistance Junction to Ambient Air	R _{θJA}	--	--	120	°C/W
Forward Voltage at I _F = 200mA	V _F	--	--	1.1	V

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Part Number	Nominal Zener Voltage			Max. Zener Impedance		Max Reverse Leakage Current	
	Vz @ IzT			ZzT @ IzT		IR @ VR	
	Nom. V	Min. V	Max. V	Ω	mA	μA	V
LL4620	3.3	3.135	3.465	1650	0.25	7.5	1.5
LL4621	3.6	3.42	3.78	1700	0.25	7.5	2
LL4622	3.9	3.705	4.095	1650	0.25	5.0	2
LL4623	4.3	4.085	4.515	1600	0.25	4.0	2
LL4624	4.7	4.465	4.935	1550	0.25	10	3
LL4625	5.1	4.845	5.355	1500	0.25	10	3
LL4626	5.6	5.32	5.88	1400	0.25	10	4
LL4627	6.2	5.89	6.51	1200	0.25	10	5
LL4099	6.8	6.46	7.14	200	0.25	10	5.17
LL4100	7.5	7.125	7.875	200	0.25	10	5.70
LL4101	8.2	7.79	8.61	200	0.25	1.0	6.24
LL4102	8.7	8.265	9.135	200	0.25	1.0	6.61
LL4103	9.1	8.645	9.555	200	0.25	1.0	6.92
LL4104	10	9.50	10.50	200	0.25	1.0	7.60
LL4105	11	10.45	11.55	200	0.25	0.05	8.44
LL4106	12	11.40	12.60	200	0.25	0.05	9.12
LL4107	13	12.35	13.65	200	0.25	0.05	9.87
LL4108	14	13.30	14.70	200	0.25	0.05	10.65
LL4109	15	14.25	15.75	100	0.25	0.05	11.40
LL4110	16	15.20	16.80	100	0.25	0.05	12.15
LL4111	17	16.25	17.85	100	0.25	0.05	12.92
LL4112	18	17.10	18.90	100	0.25	0.05	13.67
LL4113	19	18.05	19.95	150	0.25	0.05	14.44
LL4114	20	19.00	21.00	150	0.25	0.01	15.20
LL4115	22	20.90	23.10	150	0.25	0.01	16.72
LL4116	24	22.80	25.20	150	0.25	0.01	18.25
LL4117	25	23.75	26.25	150	0.25	0.01	19.00
LL4118	27	25.65	28.35	150	0.25	0.01	20.45
LL4119	28	26.60	29.40	200	0.25	0.01	21.28
LL4120	30	28.50	31.50	200	0.25	0.01	22.80
LL4121	33	31.35	34.65	200	0.25	0.01	25.08
LL4122	36	34.20	37.80	200	0.25	0.01	27.40
LL4123	39	37.05	40.95	200	0.25	0.01	29.70
LL4124	43	40.85	45.15	250	0.25	0.01	32.70
LL4125	47	44.65	49.35	250	0.25	0.01	35.75

Notes.

STANDARD VOLTAGE TOLERANCE IS ± 5%

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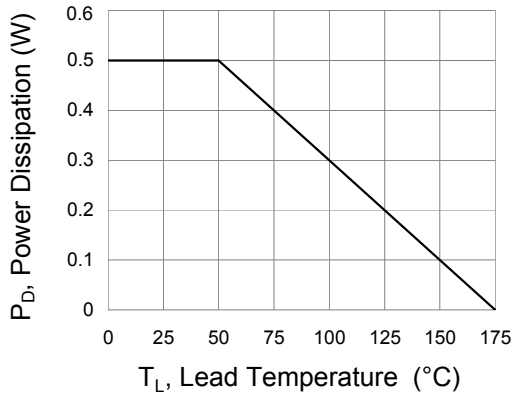


Fig.1 Power Derating Curve

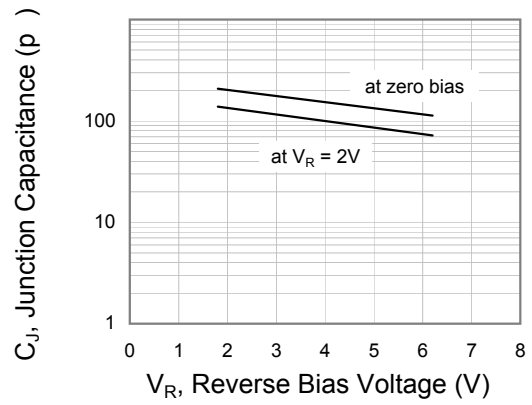


Fig.2 Typical Junction Capacitance

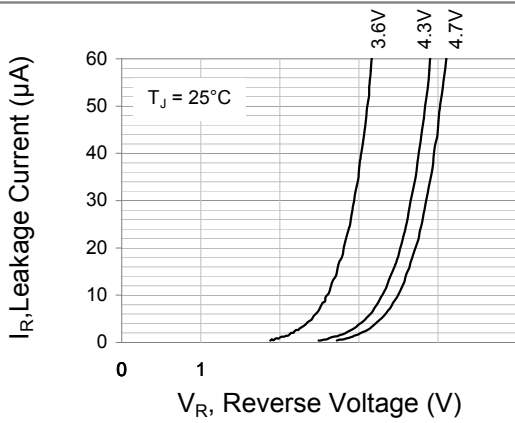


Fig.3 Typical Leakage Characteristics

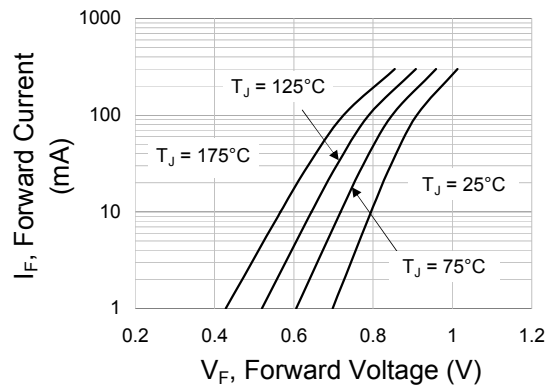


Fig.4 Typical Forward Characteristics

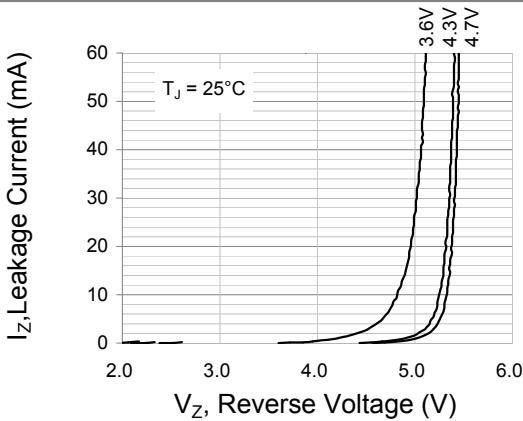


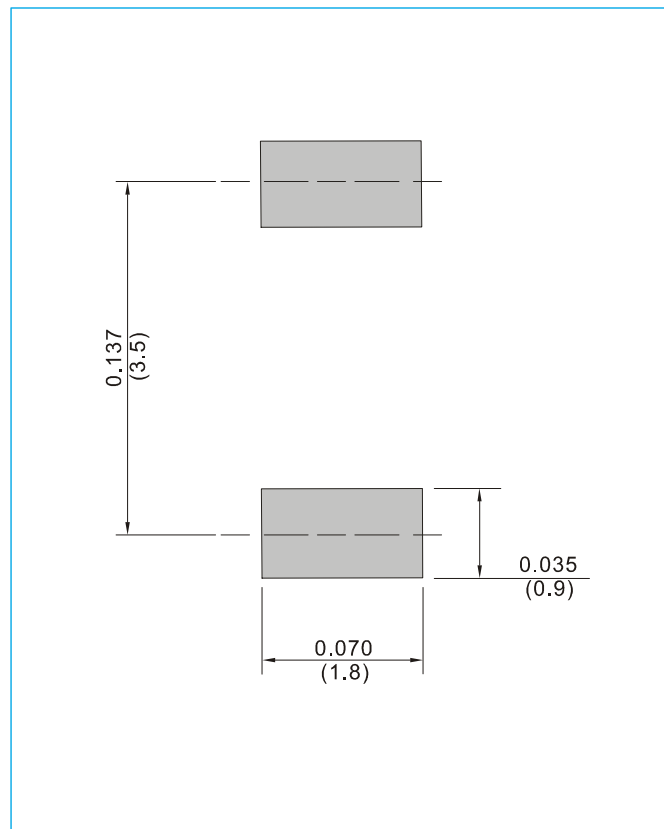
Fig.5 Typical Zener Characteristics

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MOUNTING PAD LAYOUT

MINI-MELF / LL34

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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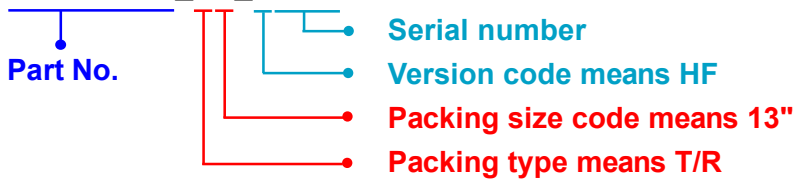
Part No_packing code_Version

LL4620_R1_10001

LL4620_R2_10001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
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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