

# LLSD103A~LLSD103C

## SMALL SIGNAL SCHOTTKY BARRIES SWITCHING DIODES

**VOLTAGE** 20 to 40 Volt **CURRENT** 0.35 Ampere

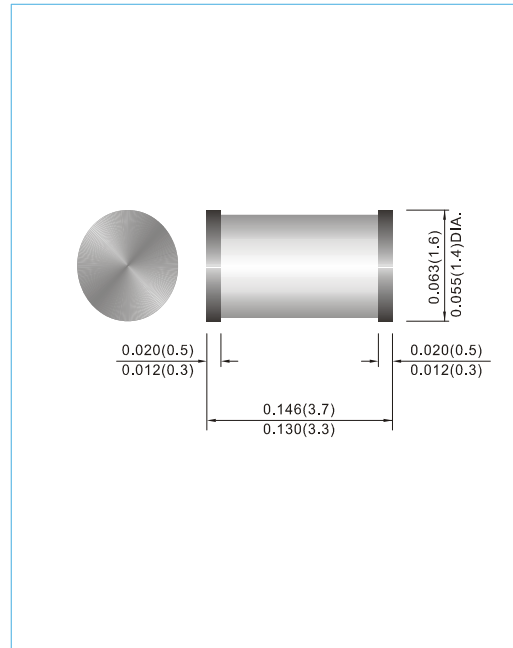
**MINI-MELF / LL34** Unit : inch(mm)

### FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Low Reverse Recovery Time
- Low Reverse Capacitance
- Lead free in compliance with EU RoHS 2011/65/EU directive

### MECHANICAL DATA

- Case: Molded Glass MINI MELF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See Diagram Below
- Approx. Weight: 0.001 ounces, 0.03 grams



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T<sub>J</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	LLSD103A	LLSD103B	LLSD103C	UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	40	30	20	V
RMS Reverse Voltage	V <sub>RMS</sub>	28	21	14	V
Max. Average Rectified Current	I <sub>F(AV)</sub>	350			mA
Peak Forward Surge Current, t ≤ 0.3ms	I <sub>FSM</sub>	15			A
Power Dissipation Derate Above 25°C	P <sub>D</sub>	400			mW
Maximum Forward Voltage, I <sub>F</sub> = 20mA I <sub>F</sub> = 200mA	V <sub>F</sub>	0.37 0.70			V
Maximum Reverse Current	I <sub>R</sub>	5 @ 30V	5 @ 20V	5 @ 10V	μA
Typical Junction Capacitance( Note 1)	C <sub>J</sub>	50			pF
Typical Reverse Recovery (Note 2)	t <sub>rr</sub>	10			ns
Typical Thermal Resistance	R <sub>θJA</sub>	250			°C / W
Storage Temperature Range	T <sub>STG</sub>	-65 to +175			°C

**NOTE:**

1. C<sub>J</sub> at V<sub>R</sub>=0, f=1MHZ
2. From I<sub>F</sub>=50mA to I<sub>R</sub>=200mA, R<sub>L</sub>=100Ω

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## RATING AND CHARACTERISTIC CURVES

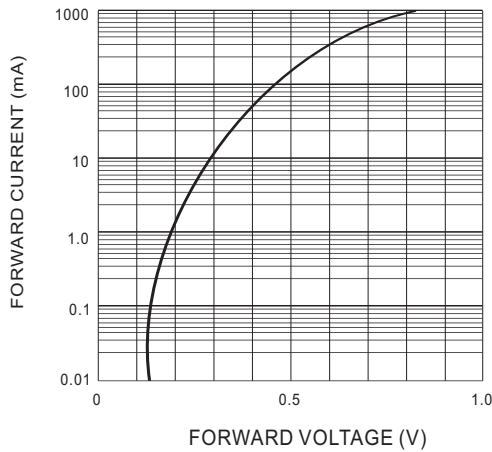


Fig. 1 FORWARD CHARACTERISTICS

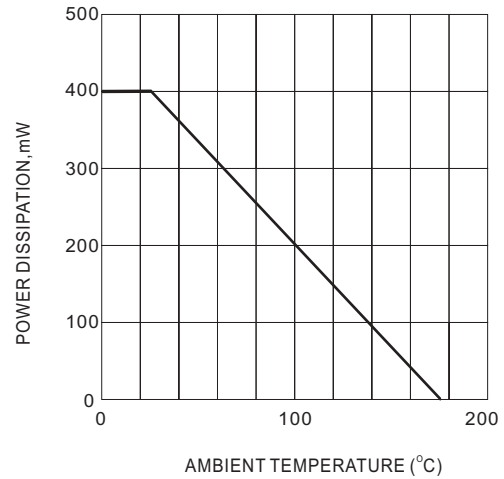


Fig. 2 POWER DISSIPATION DERATING CURVE

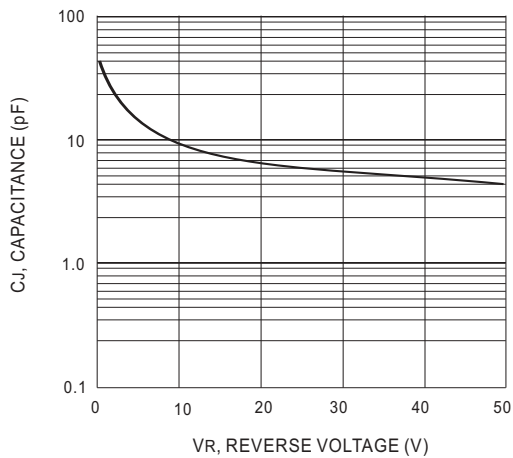


Fig. 3 TYPICAL CAPACITANCE vs REVERSE VOLTAGE

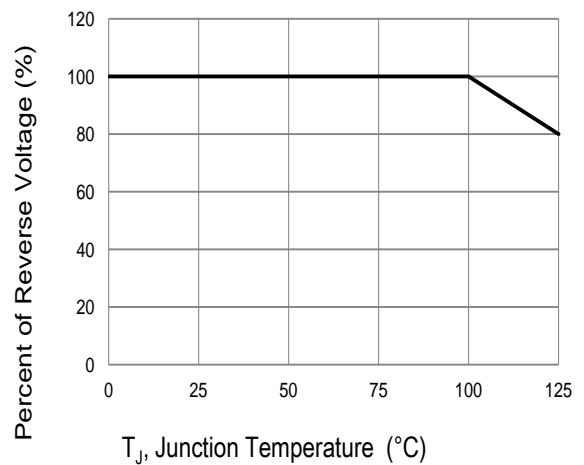
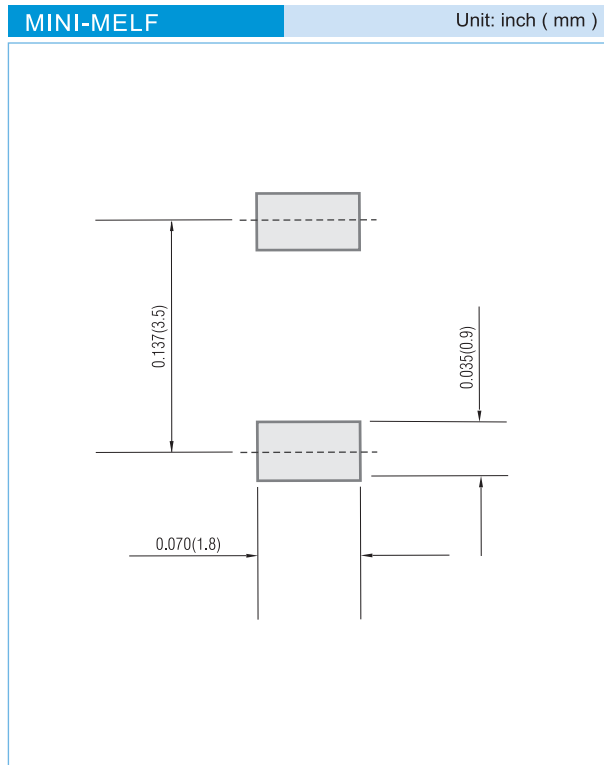


Fig. 4 Operating Temperature Derating Curve

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### MOUNTING PAD LAYOUT



### ORDER INFORMATION

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

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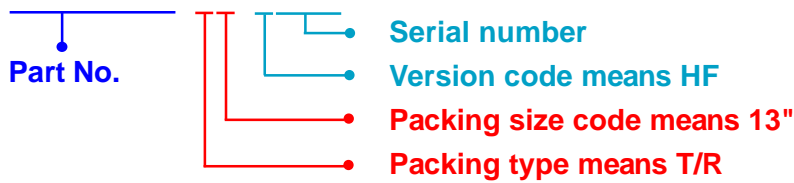
## Part No\_packing code\_Version

LLSD103A\_R1\_10001

LLSD103A\_R2\_10001

For example :

**RB500V-40\_R2\_00001**



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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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