

LLSD103C-13 Datasheet

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DiGi Electronics Part Number	LLSD103C-13-DG
Manufacturer	Diodes Incorporated
Manufacturer Product Number	LLSD103C-13
Description	DIODE SCHOTT 20V 350MA MINI MELF
Detailed Description	Diode 20 V 350mA Surface Mount Mini MELF

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Purchase and inquiry

Manufacturer Product Number:

LLSD103C-13

Series:

-

Technology:

Schottky

Current - Average Rectified (Io):

350mA

Speed:

Fast Recovery =< 500ns, > 200mA (Io)

Current - Reverse Leakage @ Vr:

5 μ A @ 10 V

Mounting Type:

Surface Mount

Supplier Device Package:

Mini MELF

Manufacturer:

Diodes Incorporated

Product Status:

Obsolete

Voltage - DC Reverse (Vr) (Max):

20 V

Voltage - Forward (Vf) (Max) @ If:

600 mV @ 200 mA

Reverse Recovery Time (trr):

10 ns

Capacitance @ Vr, F:

50pF @ 0V, 1MHz

Package / Case:

DO-213AA

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Affected

HTSUS:

8541.10.0070

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99



LLSD103A - 103C

SURFACE MOUNT SCHOTTKY BARRIER DIODE

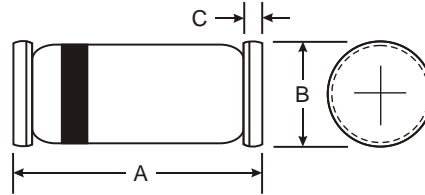
NOT RECOMMENDED FOR NEW DESIGNS
PLEASE USE SD103AW - SD103CW

Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Reverse Recovery Time
- **Lead Free Finish, RoHS Compliant (Note 3)**

Mechanical Data

- Case: MiniMELF
- Case Material: Glass. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Sn97.5Ag2.5. Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Ordering Information: See Last Page
- Marking: Cathode Band Only
- Weight: 0.05 grams (approximate)



MiniMELF		
Dim	Min	Max
A	3.30	3.70
B	1.30	1.60
C	0.28	0.50
All Dimensions in mm		

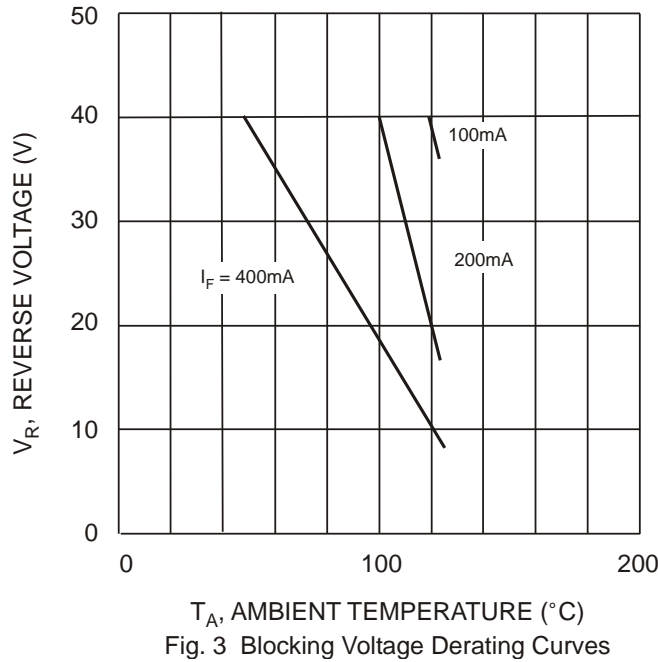
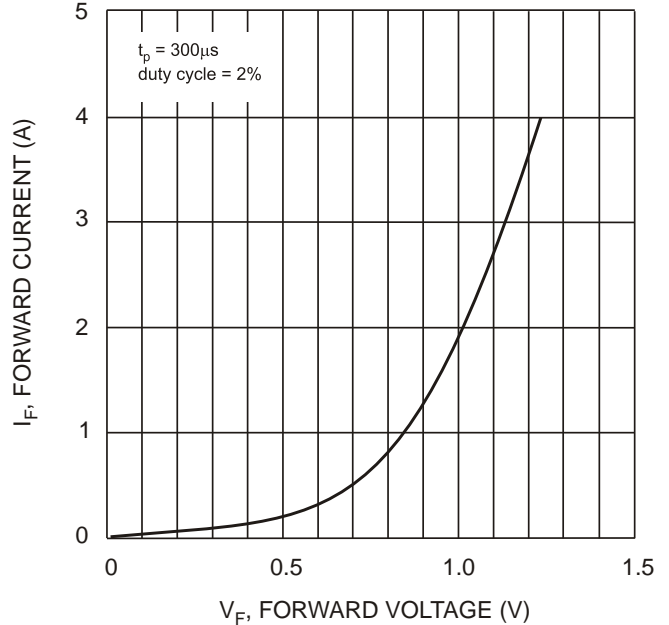
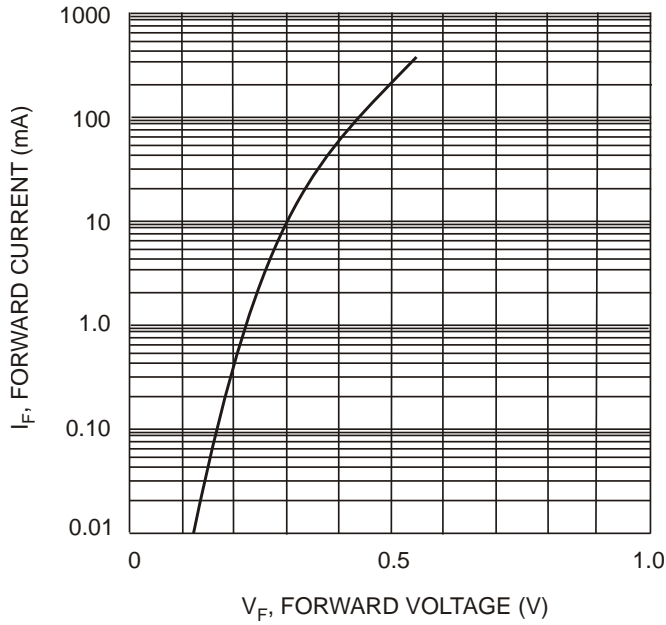
Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	LLSD103A	LLSD103B	LLSD103C	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	40	30	20	V
Working Peak Reverse Voltage	V_{RWM}				
DC Blocking Voltage	V_R				
RMS Reverse Voltage	$V_{R(RMS)}$	28	21	14	V
Forward Continuous Current (Note 1)	I_{FM}	350			mA
Repetitive Peak Forward Current @ $t = 1.0\text{s}$	I_{FRM}	1.0			A
Non-Repetitive Peak Forward Surge Current @ $t = 1.0\text{s}$ @ $t = 10\text{ms}$	I_{FSM}	1.5 7.5			A
Power Dissipation (Note 1)	P_d	400			mW
Thermal Resistance, Junction to Ambient Air (Note 1)	R_{JA}	250			$^\circ\text{C/W}$
Operating Temperature Range	T_j	-55 to +125			$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150			$^\circ\text{C}$

Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage	V_F			0.37 0.60	V	$I_F = 20\text{mA}$ $I_F = 200\text{mA}$
Peak Reverse Current (Note 2)	I_R			5.0	μA	$V_R = 30\text{V}$ $V_R = 20\text{V}$ $V_R = 10\text{V}$
Total Capacitance	C_T		50		pF	$V_R = 0\text{V}$, $f = 1.0\text{MHz}$
Reverse Recovery Time	t_{rr}			10	ns	$I_F = I_R = 50\text{mA}$ to 200mA , $I_{rr} = 0.1 \times I_R$, $R_L = 100$

- Note: 1. Part mounted on FR-4 board with recommended pad layout, which can be found on our website at <http://www.diodes.com/datasheets/ap02001.pdf>.
2. Short duration test pulse used to minimize self-heating effect.
3. EC Directive 2002/95/EC (RoHS) revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied where applicable, see EU Directive Annex Notes 5 and 7.



Ordering Information (Note 4)

Device	Packaging	Shipping
LLSD103A-7	MiniMELF	2.5K/Tape & Reel, 7-inch
LLSD103A-13	MiniMELF	10K/Tape & Reel, 13-inch
LLSD103B-7	MiniMELF	2.5K/Tape & Reel, 7-inch
LLSD103B-13	MiniMELF	10K/Tape & Reel, 13-inch
LLSD103C-7	MiniMELF	2.5K/Tape & Reel, 7-inch
LLSD103C-13	MiniMELF	10K/Tape & Reel, 13-inch

Notes: 4. For packaging details, visit our website at <http://www.diodes.com/datasheets/ap02007.pdf>.

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