



Micro Commercial Components

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LLSD101A THRU LLSD101C

Features

- Guard Ring Construction for Transient Protection
- Low Reverse Capacitance
- Low Forward Voltage Drop and Low Reverse Recovery Time
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates Compliant. See ordering information)

Mechanical Data

- Case: MiniMELF, Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band
- Weight: 0.05 grams (approx.)

Maximum Ratings @ 25°C Unless Otherwise Specified

Characteristic	Symbol	LLSD101A	LLSD101B	LLSD101C
Peak Repetitive Reverse Voltage	V_{RRM}			
Working Peak Reverse Voltage	V_{RWM}	60V	50V	40V
DC Blocking Voltage	V_R			
RMS Reverse Voltage	$V_{R(RMS)}$	42V	35V	28V
Forward Continuous Current(Note 2)	I_{FM}	15mA		
Non-Repetitive Peak @ $t \leq 1.0s$ Forward Surge Current @ $t = 10\mu s$	I_{FSM}	50mA 2.0A		
Power Dissipation(Note 2)	P_d	400mW		
Thermal Resistance(Note 2)	R	375K/W		
Operation & Storage Temp. Range	T_j, T_{STG}	-55 to 150°C		

Electrical Characteristics @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Min	Max	Unit	Test Cond.
Peak Reverse Current	I_{RM}	-----	200	nA	$V_R = 50V$ $V_R = 40V$ $V_R = 30V$
Forward Volt. Drop	V_{FM}	-----	0.41 0.40 0.39 1.00 0.95 0.90	V	$I_F = 1.0mA$ $I_F = 1.0mA$ $I_F = 1.0mA$ $I_F = 15mA$ $I_F = 15mA$ $I_F = 15mA$
Junction Capacitance	C_j	-----	2.0 2.1 2.2	pF	$V_R = 0V, f = 1.0MHz$
Reverse Recovery Time	t_{rr}	-----	1.0	ns	$I_F = I_R = 5mA,$ recover to $0.1 I_R$

Note:1.Lead in Glass Exemption Applied, see EU Directive Annex 5.
2.Valid provided that electrodes are kept at ambient temperature

Schottky Barrier Switching Diode

MINIMELF

DIMENSION

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.134	.142	3.40	3.60	
B	.008	.016	.20	.40	
C	.055	.059	1.40	1.50	

SUGGESTED SOLDER PAD LAYOUT

LLSD101A thru LLSD101C

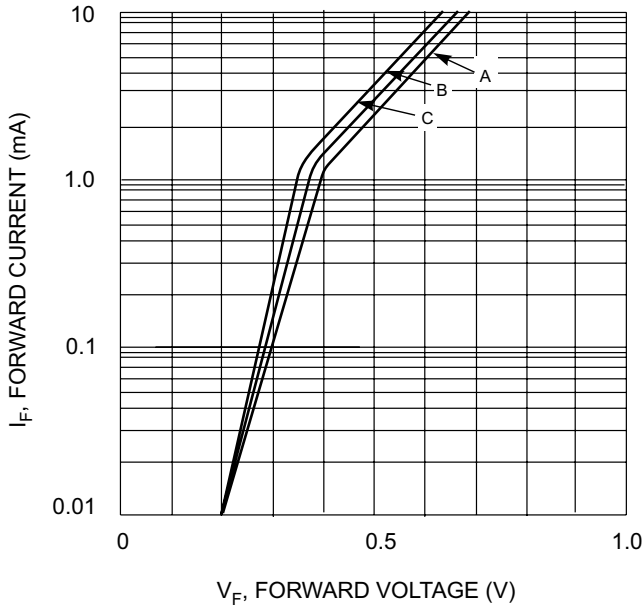


Fig. 1 Typical Forward Characteristic Variations for Primary Conduction

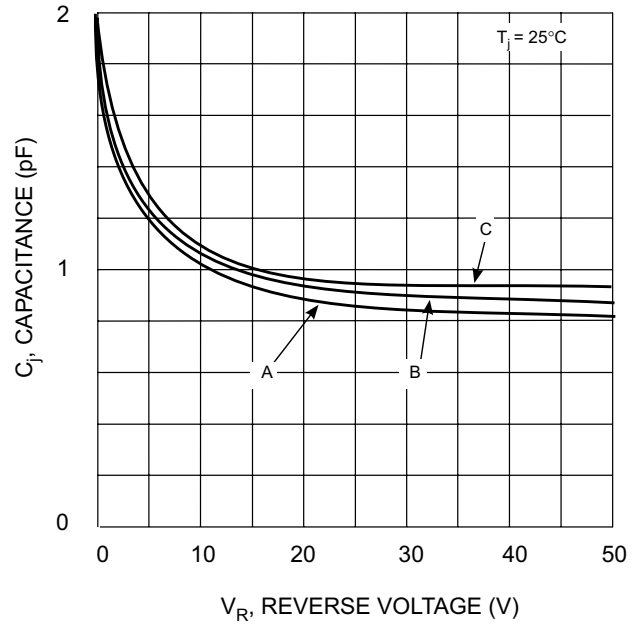


Fig. 2 Typ. Junction Capacitance vs Reverse Voltage



TM

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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;2.5Kpcs/Reel

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