



Micro Commercial Components

Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

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}	60V	50V	40V
Working Peak Reverse Voltage	V_{RWM}			
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 @ $t \leq 1.0s$	I_{FSM}	50mA		
Forward Surge Current @ $t = 10us$				
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		

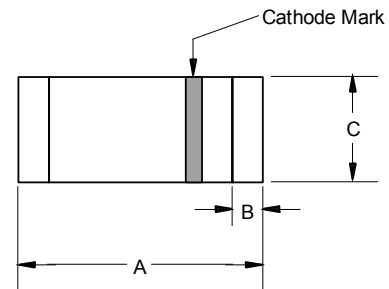
Electrical Characteristics @ 25°C Unless Otherwise Specified

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

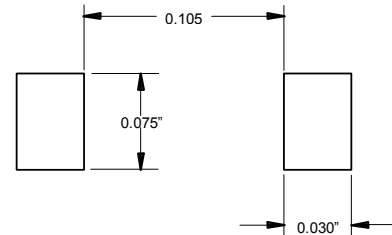
Schottky Barrier Switching Diode

MINIMELF



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

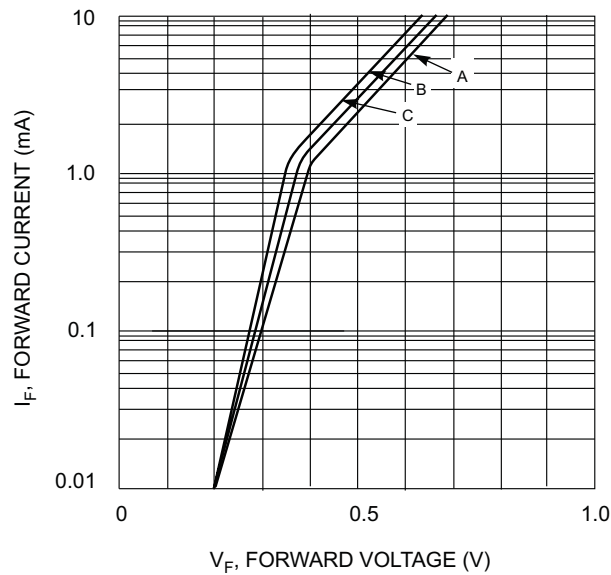


Fig. 1 Typical Forward Characteristic Variations for Primary Conduction

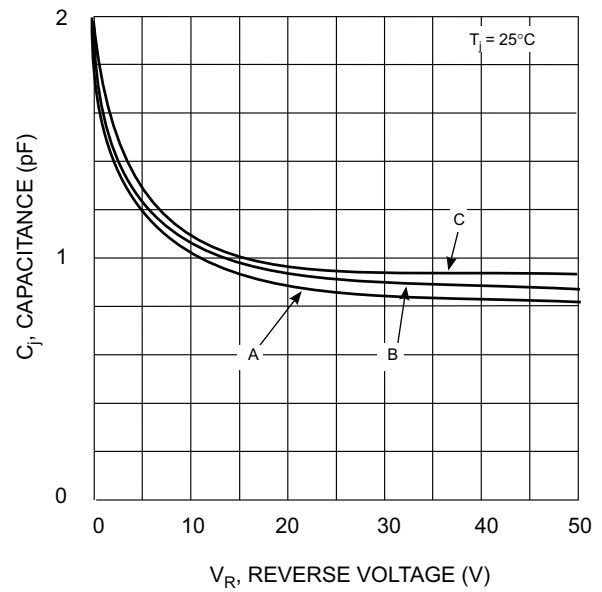


Fig. 2 Typ. Junction Capacitance vs Reverse Voltage



Micro Commercial Components

Ordering Information

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes .
Micro Commercial Components Corp. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp.* and all the companies whose products are represented on our website, harmless against all damages.

APPLICATIONS DISCLAIMER

Products offer by *Micro Commercial Components Corp.* are not intended for use in Medical, Aerospace or Military Applications.