



Micro Commercial Corp.
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LLSD103A thru LLSD103C

Features

- Schottky Barrier Diode
- Guard Ring Protection
- Low Forward Voltage
- Low Power Loss For High Efficiency
- For Surface Mount Applications

Maximum Ratings

- Operating Temperature: -65°C to +175°C
- Storage Temperature: -65°C to +175°C
- Maximum Thermal Resistance; 15°C/W Junction To Ambient

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
LLSD103A	20V	14V	20V
LLSD103B	30V	21V	30V
LLSD103C	40V	28V	40V

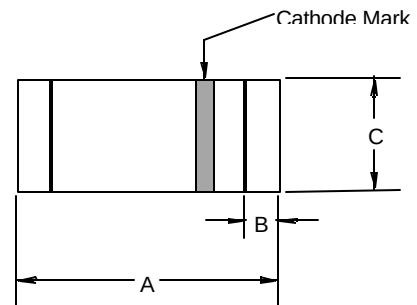
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	350mA	$T_A = 90^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	7.5A	8.3ms, half sine
Maximum Power Dissipation	P_D	400mW	
Maximum Instantaneous Forward Voltage	V_F	0.60V	$I_{FM} = 200\text{mA};$ $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0 μA	80% of V_{BR} $T_J = 25^\circ\text{C}$
Typical Junction Capacitance	C_j	50pF	$V_R = 0\text{V}$ $f = 1.0\text{MHz}$

*Pulse test: Pulse width 300 μsec , Duty cycle 2%

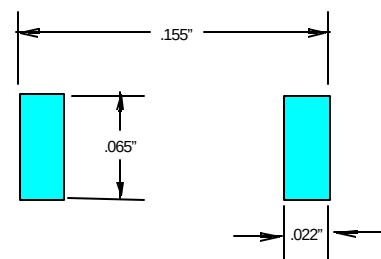
400mW Small Signal Schottky Diode 20 - 40 Volts

MINIMELF



DIMENSIONS					
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	Ø

SUGGESTED SOLDER PAD LAYOUT

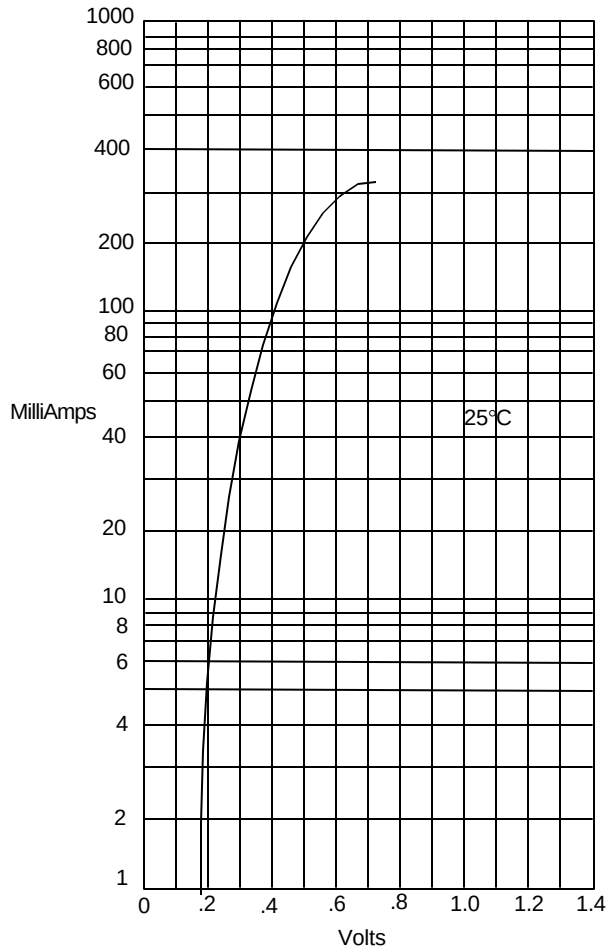


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LLSD103A thru LLSD103C

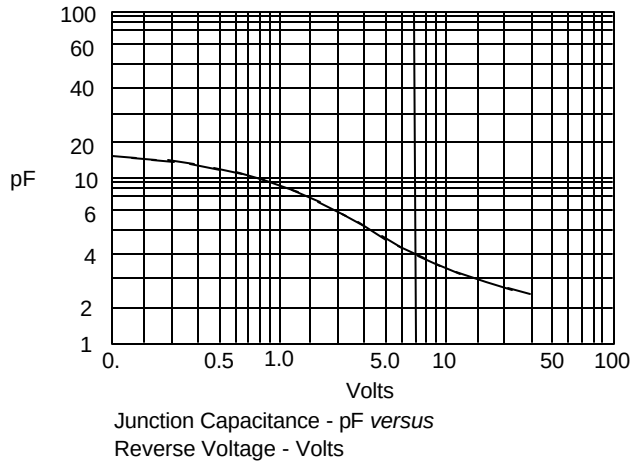


Figure 1
Typical Forward Characteristics



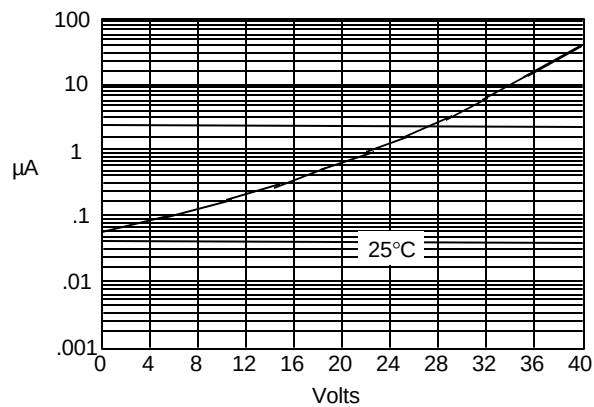
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Junction Capacitance



Junction Capacitance - pF *versus*
Reverse Voltage - Volts

Figure 3
Typical Reverse Characteristics



Typical Reverse Current - mA *versus*
Reverse Voltage - Volts