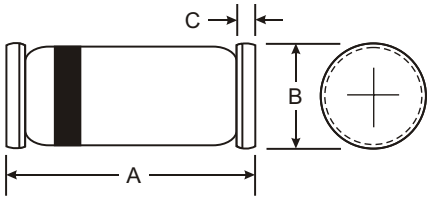
LL6263

SCHOTTKY BARRIER SWITCHING DIODE

Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching Time
- Low Reverse Capacitance



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

Mechanical Data

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

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	LL6263	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	42	V
Forward Continuous Current (Note 1)	I_{FM}	15	mA
Non-Repetitive Peak Forward Surge Current @ t ≤ 1.0s @ t = 10μs	I_{FSM}	50 2.0	mA A
Power Dissipation (Note 1)	P_d	400	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	375	K/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +175	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Maximum Forward Voltage Drop	V_{FM}	—	—	0.41 1.0	V	I_F = 1.0mA I_F = 15mA
Maximum Peak Reverse Current	I_{RM}	—	—	200	nA	V_R = 50V
Junction Capacitance	C_j	—	2.0	—	pF	V_R = 0V, f = 1.0MHz
Reverse Recovery Time	t_{rr}	—	1.0	—	ns	I_F = I_R = 5.0mA, I_{rr} = 0.1 x I_R, R_L = 100Ω

Note: 1. Valid provided that electrodes are kept at ambient temperature.

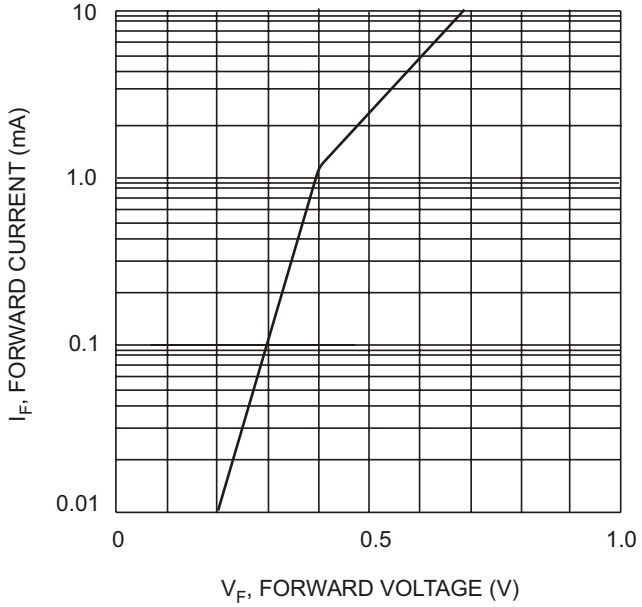


Fig. 1 Typical Forward Characteristic Variations for Primary Conduction

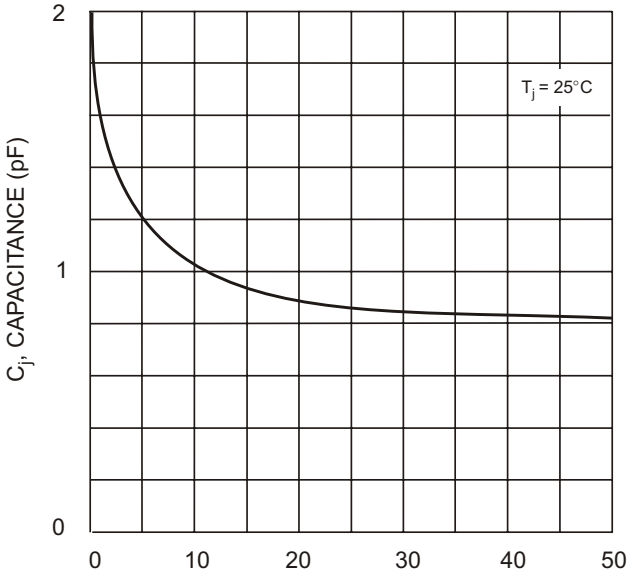


Fig. 2 Typ. Junction Capacitance vs Reverse Voltage