



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

LL85

Small Signal Schottky Diodes

Features

- For general purpose applications
- These diodes features very low turn-on voltage and fast switching . These devices are protected by a PN junction guard ring against excessive voltage., such as electrostatic discharges.

Maximum Ratings

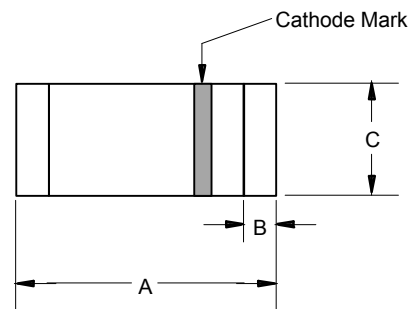
Repetitive Peak Reverse Voltage	V_R	30V	
Forward Continuous Current at	I_F	200mA	$T_A=25^\circ\text{C}$
Repetitive Peak Forward Current	I_{FM}	300mA	$t_p<1\text{s}, \delta<0.5, T_A=25^\circ\text{C}$
Maximum Forward Surge Current	I_{FSM}	600mA	$t_p<10\text{mS}, T_A=25^\circ\text{C}$
Power Dissipation	P_{TOT}	200mW	$T_A=65^\circ\text{C}$
Junction Temperature	T_J	125°C	
Ambient Operating temperature Range	T_A	-55 to +125°C	
Storage Temperature Range	T_{STG}	-55 to +150°C	

Valid provided that leads at a distance of 4mm from case are kept at ambient temperature

Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Forward Voltage $I_F = 0.1\text{mA}$ $I_F = 1\text{mA}$ $I_F = 10\text{mA}$ $I_F = 30\text{mA}$ (Typical) $I_F = 100\text{mA}$	V_F	0.24V 0.32V 0.40V 0.50V 0.80V	Pulse Test $t_p<300, \delta<2\%$
Minimum Reverse Breakdown Voltages	$V_{(BR)R}$	30V	Tested with 100μA pulse
Maximum Leakage current	I_R	2.0μA	$V_R=25\text{V}$
Maximum Junction Capacitance	C_J	10pF	$V_R=1\text{V}, f=1\text{MHz}$
Maximum Reverse recovery time	t_{rr}	5.0ns	$I_F=10\text{mA}, I_R=10\text{mA}, I_R=1\text{mA}$
Maximum Thermal resistance junction to Ambient Air	$R_{\theta JA}$	300K/W	

MINIMELF



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.134	.142	3.40	3.60	
B	.008	.016	0.20	0.40	
C	.055	.059	1.40	1.50	

SUGGESTED SOLDER PAD LAYOUT

