

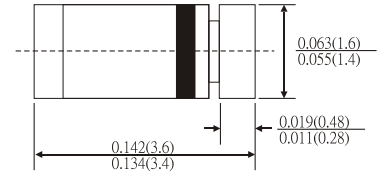
# LL85

## 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.
- This diode is also available in the DO-35 glass case with type designation LL85.in the Micro-MELF case with type designation MCL85

### Mini-MELF



### MECHANICAL DATA

- Case : Mini-MELF glass case
- Polarity: color band denotes cathode end
- Weight : Approx. 0.05 gram

Dimensions in inches and (millimeters)

### ABSOLUTE RATINGS(LIMITING VALUES)

	<i>Symbols</i>	<i>Value</i>	<i>Units</i>
Repetitive Peak Reverse Voltage	$V_R$	30	V
Forward Continuous Current at $T_A=25^{\circ}\text{C}$	$I_F$	200 <sup>1)</sup>	mA
Repetitive Peak Forward Current at $t_p < 1\text{s}, \delta < 0.5, T_A=25^{\circ}\text{C}$	$I_{FM}$	300 <sup>1)</sup>	mA
Surge forward current at $t_p < 10\text{ms}, T_A=25^{\circ}\text{C}$	$I_{FSM}$	600 <sup>1)</sup>	mA
Power Dissipation <sup>1)</sup> at $T_A=65^{\circ}\text{C}$	$P_{tot}$	200 <sup>1)</sup>	mW
Junction temperature	$T_J$	125	$^{\circ}\text{C}$
Ambient Operating temperature Range	$T_A$	-65 to +125	$^{\circ}\text{C}$
Storage Temperature Range	$T_{STG}$	-65 to +150	$^{\circ}\text{C}$

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

### ELECTRICAL CHARACTERISTICS

	<i>Symbols</i>	<i>Min.</i>	<i>Typ.</i>	<i>Max.</i>	<i>Units</i>
Reverse breakdown voltage Tested with 100 $\mu\text{A}$ pulses	$V_{(BR)R}$	30			V
Forward voltage Pulse Test $t_p < 300\mu\text{s}, \delta < 2\%$ at $I_F=0.1\text{mA}$ , at $I_F=1\text{mA}$ , at $I_F=10\text{mA}$ , at $I_F=30\text{mA}$ , at $I_F=100\text{mA}$	$V_F$ $V_F$ $V_F$ $V_F$ $V_F$		0.50	0.24 0.32 0.4 0.8	V V V V V
Leakage current $V_R=25\text{V}$	$I_R$			2	$\mu\text{A}$
Junction Capacitance at $V_R=1\text{V}, f=1\text{MHz}$	$C_J$			10	pF
Reverse recovery time Form $I_F=10\text{mA}, I_R=10\text{mA}, I_R=1\text{mA}$	$t_{rr}$			5	ns
Thermal resistance junction to ambient Air	$R_{\theta JA}$			300 <sup>1)</sup>	K/W

1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature(DO-35)