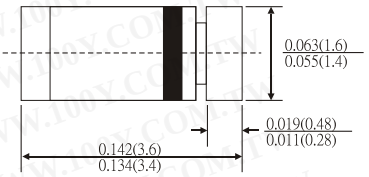
LL85

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



Dimensions in inches and (millimeters)

MECHANICAL DATA

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

ABSOLUTE RATINGS(LIMITING VALUES)

	Symbols	*Value*	*Units*
Repetitive Peak Reverse Voltage	V_R	30	V
Forward Continuous Current at T_A=25°C	I_F	200 [1]	mA
Repetitive Peak Forward Current at t_p<1s, δ<0.5, T_A=25°C	I_{FM}	300 [1]	mA
Surge forward current at t_p<10mS , T_A=25°C	I_{FSM}	600 [1]	mA
Power Dissipation[1] at T_A=65°C	P_{tot}	200 [1]	mW
Junction temperature	T_J	125	℃
Ambient Operating temperature Range	T_A	-65 to+125	℃
Storage Temperature Range	T_{STG}	-65 to+150	℃
1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature			

ELECTRICAL CHARACTERISTICS

	Symbols	*Min.*	*Typ.*	*Max.*	*Units*
Reverse breakdown voltage Tested with 100μA pulses	$V_{(BR)R}$	30			V
Forward voltage Pulse Test t_p <300μs,δ <2% at I_F=0.1mA, at I_F=1mA, at I_F=10mA, at I_F=30mA, at I_F=100mA	 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=25V	I_R			2	μA
Junction Capacitance at V_R=1V ,f=1MHz	C_J			10	pF
Reverse recovery time Form I_F=10mA,I_R=10mA,I_R=1mA	trr			5	ns
Thermal resistance junction to ambient Air	$R_{\theta JA}$			300 [1]	K/W
1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature(DO-35)					