

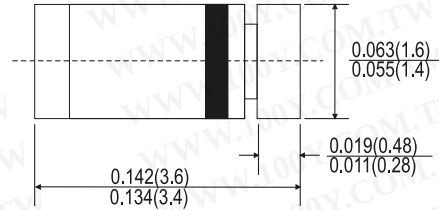
LL101A THUR LL101C

SMALL SIGNAL SCHOTTKY DIODES

MINI MELF / SOD-80 / DO-213AA

FEATURES:

- Silicon epitaxial planar diode
- For general purpose applications
- Low forward voltage drop



MECHANICAL DATA

Case: MINI MELF glass case (SOD-80)

Weight: Approx. 0.05gram

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

Characteristic	Symbol	LL101A	LL101B	LL101C	Units
Peak reverse voltage	V _{RRM}	60	50	40	Volts
Power Dissipation (Infinite Heat Sink) (NOTE 1)	P _{tot}	400			mW
Maximum Single surge 10uS square wave	I _{FSM}	2.0			Amps
Maximum Reverse breakover voltage at I _R =10uA	V _R	60	50	40	Volts
Maximum Leakage current (NOTE 3) V _R =50V V _R =40V V _R =40V	I _R	0.2	0.2	0.2	uA
Maximum Instantaneous forward voltage drop per leg at I _F =1mA I _F =15mA	V _F	0.41 1.0	0.40 0.95	0.39 0.90	Volts
Junction Capacitance at V _R = 0 V, f=1MHZ	C _J	2.0	2.1	2.2	P _F
Maximum Reverse recovery time (NOTE 2)	T _{RR}	1			ns
Operating temperature range	T _J	125			°C
Storage temperature range	T _{stg}	-55 to +150			°C

NOTES:

(1) Valid provided that electrodes are kept at ambient temperature

(2) Reverse recovery condition I_F = 0.005A, I_R = 0.005A, Recover to 0.1 I_R

(3) Reverse recovery condition : LL101A at V_R = 50V, LL101B at V_R = 40V, LL101C at V_R = 30V

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Figure-1. Typical variation of forward Current vs.fwd.Voltage for primary conduction through the schottky barrier

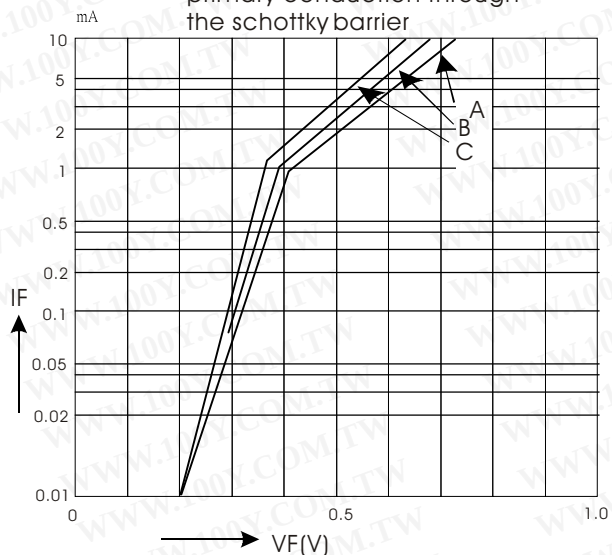
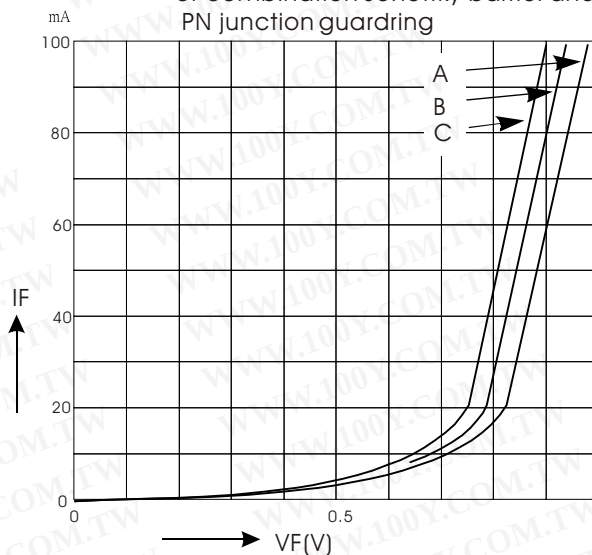


Figure-2. Typical forward Conduction curve of combination Schottky barrier and PN junction guarding



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Figure-3. Typical variation of reverse current at versus temperature

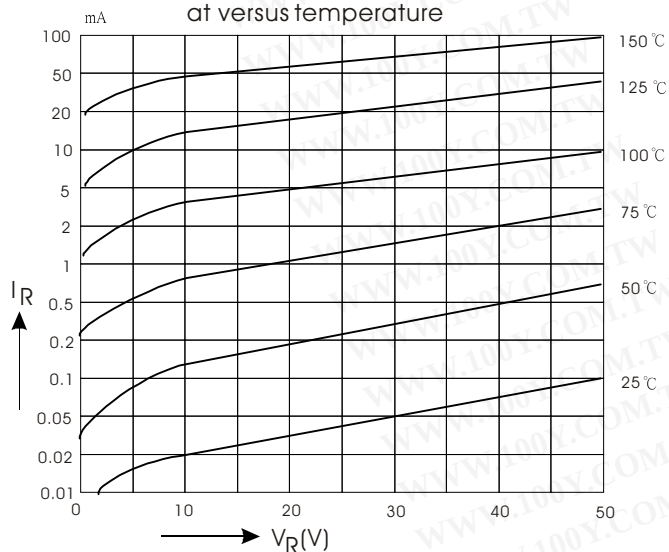


Figure-4. Typical capacitance curve as a function of reverse voltage

