



DC COMPONENTS CO., LTD.
RECTIFIER SPECIALISTS

LL42
LL43

TECHNICAL SPECIFICATIONS OF SMALL SIGNAL SCHOTTKY BARRIER DIODES
VOLTAGE - 30 Volts **CURRENT - 0.2 Amperes**

FEATURES

- * For general purpose applications
- * Low turn-on voltage
- * Fast switching time
- * Protected by a PN junction guard ring against excessive voltage, such as electrostatic discharge(ESD)
- * Double slug type construction

MECHANICAL DATA

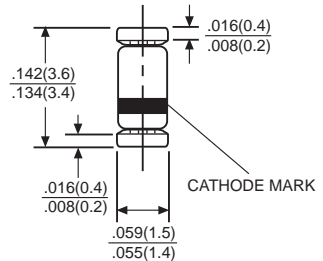
- * Case: Glass case Mini Melf(DL-35)
- * Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.05 gram approx.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.



Mini Melf(DL-35)



Dimensions in inches and (millimeters)

	SYMBOL	LL42	LL43	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}		30	Volts
Maximum RMS Voltage	V _{RMS}		21	Volts
Maximum DC Blocking Voltage	V _{DC}		30	Volts
Maximum Average Forward Rectified Current at T _A =75°C	I _O		0.2	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}		4.0	Amps
Maximum Instantaneous Forward Voltage	V _F	1.0 @ I _F =0.2A		Volts
		0.4 @ I _F =0.01A	0.33 @ I _F =0.002A	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	@ T _A = 25°C	0.5	μAmps
		@ T _A = 100°C	100	
Typical Thermal Resistance (Note1)	R _{θJA}		300	°C/W
Typical Junction Capacitance (Note 2)	C _J		10	pF
Storage Operating Temperature Range	T _J , T _{STG}		-55 to + 125	°C

NOTES : 1. Terminals maintained at specified ambient temperature.
2. Measured at 1 MHz and applied reverse voltage of 1.0 volts.

RATING AND CHARACTERISTIC CURVES (LL42 AND LL43)

FIG. 1 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS AT DIFFERENT TEMPERATURES

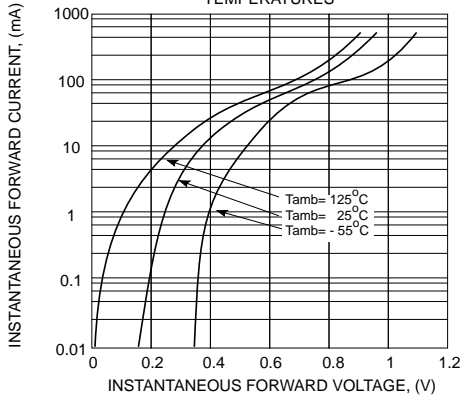


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

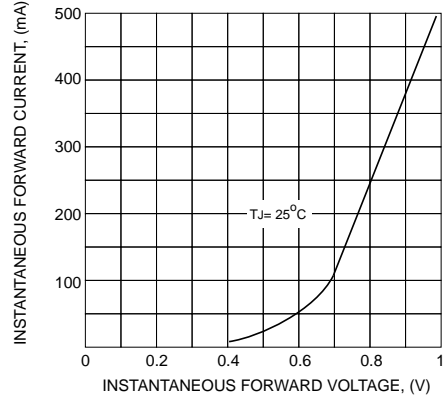


FIG. 3 - TYPICAL REVERSE CURRENT VERSUS AMBIENT TEMPERATURE

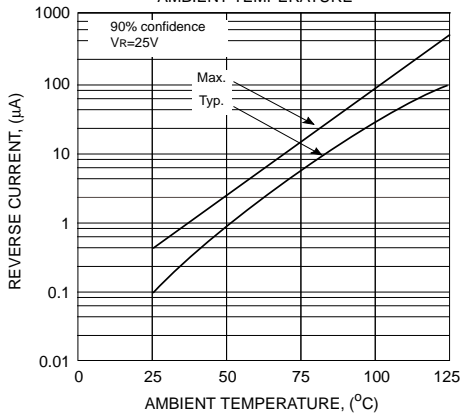


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

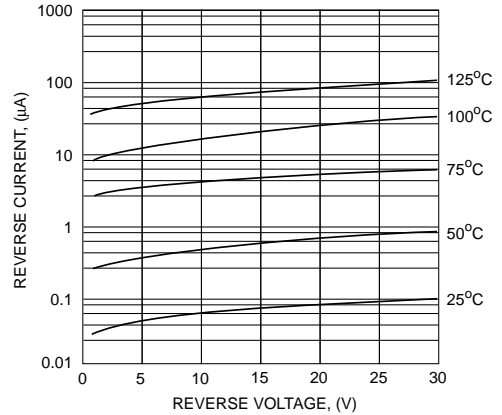


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

