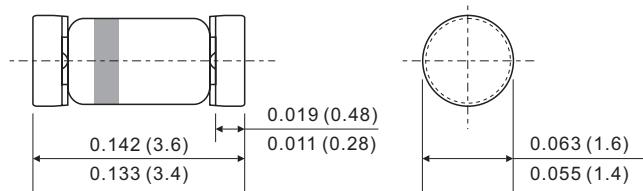


Features

1. High reliability
2. Low reverse current and low forward voltage
3. High temperature soldering guaranteed
250 °C/10 seconds at terminals

Mechanical Data

Case: MiniMELF Glass Case (SOD-80)
 Polarity: Color band denotes cathode end
 Mounting Position: Any
 Weight: approx. 0.002 ounce, 0.05grams

Glass Case MiniMELF (SOD-80)
Dimensions in inches and (mm)

Absolute Maximum Ratings Tamb =25 °C unless otherwise specified

Parameter	Test Condition	Part	Symbol	Value	Unit
Repetitive peak revers voltage		LL60	V _{RRM}	40	V
		LL60P	V _{RRM}	45	V
Peak forward surge current	T _p = 1 s	LL60	I _{FSM}	150	mA
		LL60P	I _{FSM}	500	mA
Forward continuous current	T _{amb} = 25 °C	LL60	I _F	30	mA
		LL60P	I _F	50	mA

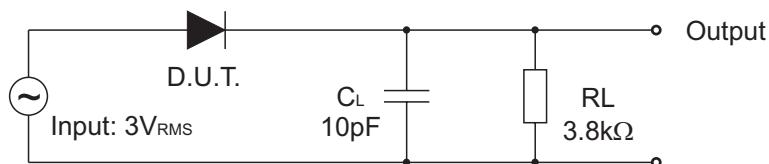
Thermal Characteristics Tamb =25 °C unless otherwise specified

Parameter	Test Condition	Symbol	Value	Unit
Thermal resistance, Junction to ambient	I = 4 mm, T _L = constant	R _{thJA}	250	°C / W
Junction temperature		T _j	125	°C
Storage temperature		T _{stg}	-65 ~ 125	°C

Electrical Characteristics Tamb =25 °C unless otherwise specified

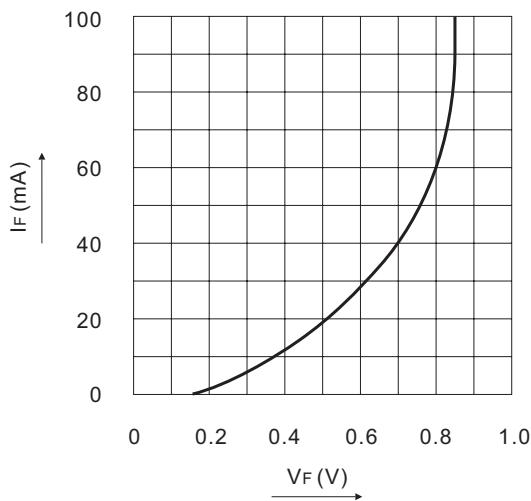
Parameter	Test Condition	Part	Symbol	Min	Typ.	Max	Unit
Forward voltage	I _F = 1 mA	LL60	V _F	—	0.32	0.5	V
		LL60P	V _F	—	0.24	0.5	V
	I _F = 30 mA	LL60	V _F	—	0.65	1.0	V
Reverse leakage current	V _R = 15 V	LL60	I _R	—	0.1	0.5	µA
		LL60P	I _R	—	0.5	1.0	µA
Diode capacitance	V _R = 1V, f = 1MHz	LL60	C _{tot}	—	2.0	—	pF
	V _R = 10V, f = 1MHz	LL60P	C _{tot}	—	6.0	—	pF
Detection efficiency (See the measurement circuit)	V _{IN} = 3 V, f = 30 MHz C _L = 10pF, R _L = 3.8kΩ		η	—	0.60	—	—
Reverse recovery time	I _F = 10mA, I _R = 10mA, I _{rr} = 1m, R _L = 100 Ω		t _{rr}	—	—	1	ns

Detection Efficiency Measurement Circuit

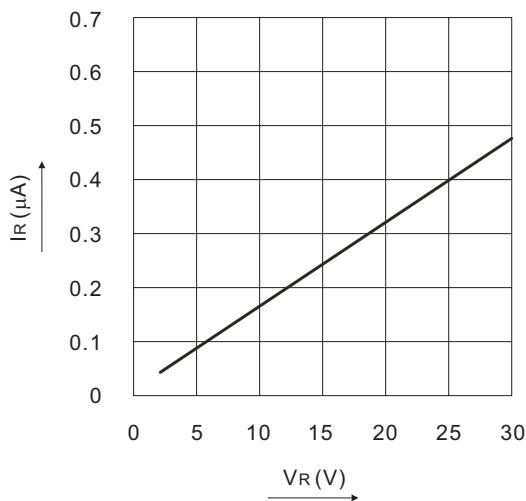


LL60 Ratings and Characteristic Curves $T_{amb} = 25^{\circ}\text{C}$ unless otherwise specified

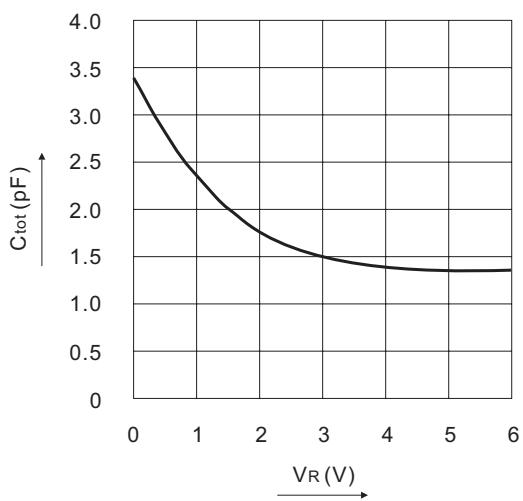
Forward current versus forward voltage (typical values)



Reverse current versus continuous reverse voltage

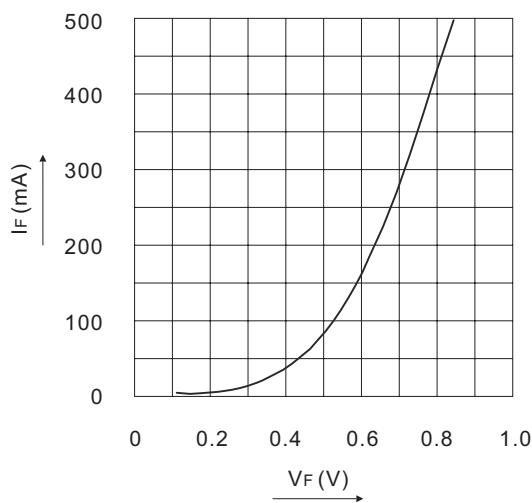


Diode capacitance versus continuous reverse voltage

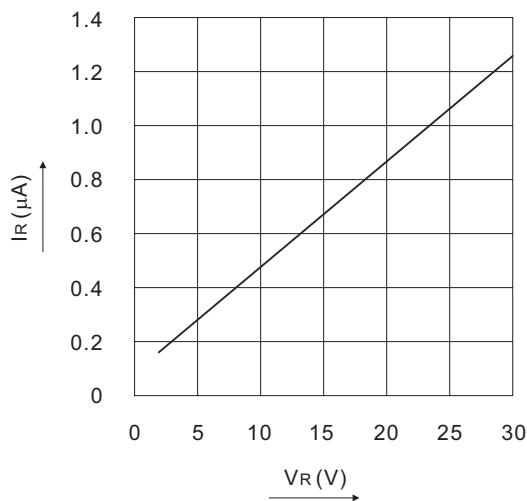


LL60P Ratings and Characteristic Curves Tamb = 25 °C unless otherwise specified

Forward current versus forward voltage (typical values)



Reverse current versus continuous reverse voltage



Diode capacitance versus continuous reverse voltage

