

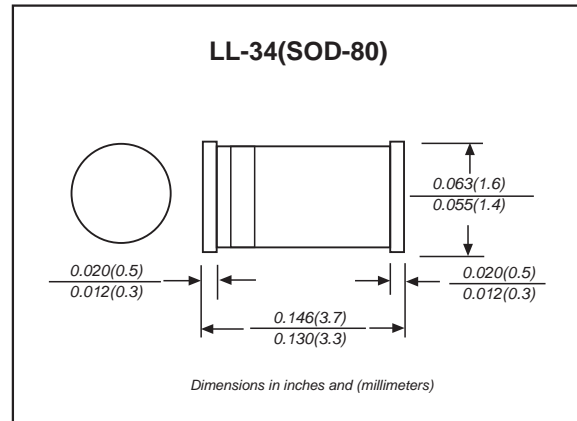
Features

- ◆ Fast Switching Device (TRR <4.0 nS)
- ◆ Power Dissipation of 500mW
- ◆ High Stability and High Reliability
- ◆ Low reverse leakage

Mechanical data

- ◆ Case: LL-34(SOD-80) Glass Case
- ◆ Polarity: Color band denotes cathode end
- ◆ Mounting Position: Any

Package outline



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings & Thermal Characteristics (Ratings at 25 °C ambient temperature unless otherwise specified.)

Parameters	Symbol	Value	Unit
Reverse Voltage	V _R	75	V
Peak Reverse Voltage	V _{RM}	100	V
Power Dissipation	P _d	500	mW
Operating junction temperature	T _j	150	
Storage temperature range	T _s	-65+175	
Working Inverse Voltage	W _{IV}	75	V
Average Rectified Current	I _o	150	mA
Non-repetitive Peak Forward Current	I _{FM}	450	mA
Peak Forward Surge Current @tp=1s; TA=25	I _{FSM}	2.0	A

Valid provided that electrodes are kept at ambient temperature.

Electrical Characteristics (Ratings at 25 °C ambient temperature unless otherwise specified).

Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	
BV	Breakdown Voltage	IR=100uA IR=5uA	100 75		V
IR	Reverse Leakage Current	VR=20V VR=75	--- ---	25 5	nA uA
VF	Forward Voltage	IF=5mA IF=10mA	0.62 ---	0.72 1	V
TRR	Reverse Recovery Time	IF= 10mA, IR=1.0mA RL=100Ω IRR=1mA	---	4	nS
C	Capacitance	VR=0V, f=1MHZ	---	4	pF

Rating and characteristic curves

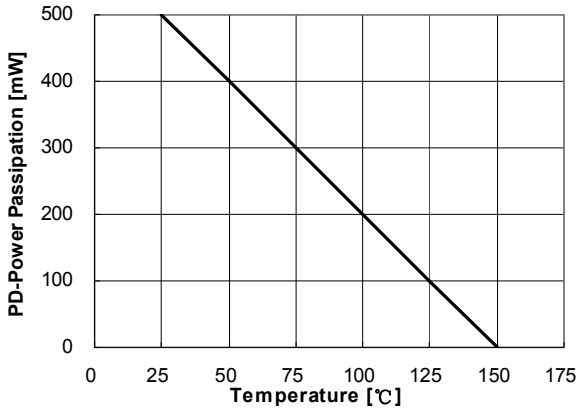


Figure 1. Power Dissipation vs Ambient Temperature
Valid provided leads at a distance of 0.8mm from case are kept at ambient temperature

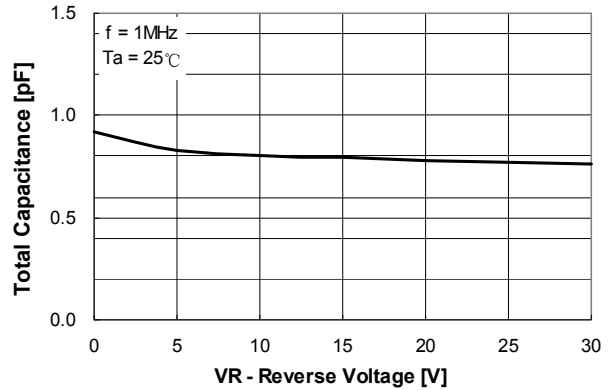


Figure 2. Total Capacitance

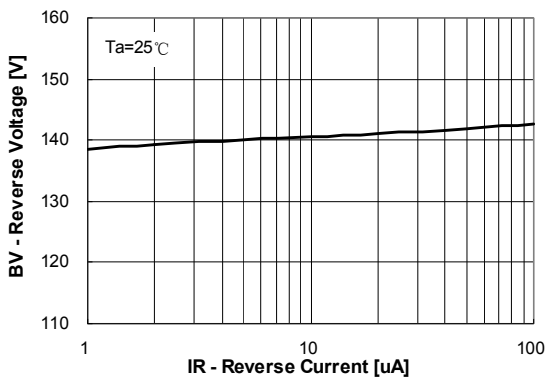


Figure 3. Reverse Voltage vs Reverse Current
BV – 1.0uA to 100uA

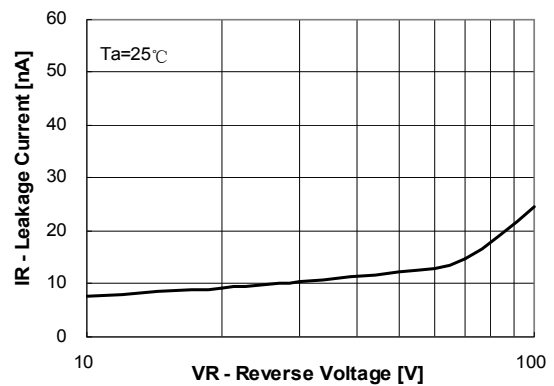


Figure 4. Reverse Current vs Reverse Voltage
IR – 10V to 100V

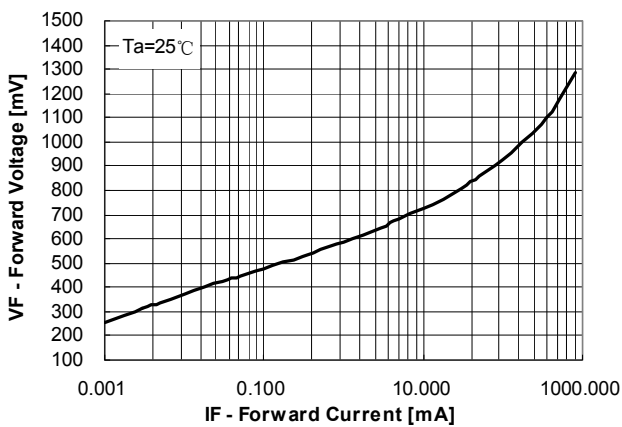


Figure 5. Forward Voltage vs Forward Current
VF – 0.001mA to 800mA

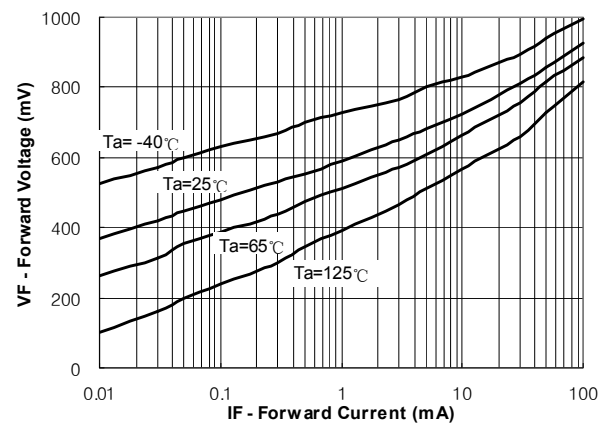


Figure 6. Forward Voltage vs Ambient Temperature
VF – 0.01mA to 100mA (-40 to +125 Deg C)