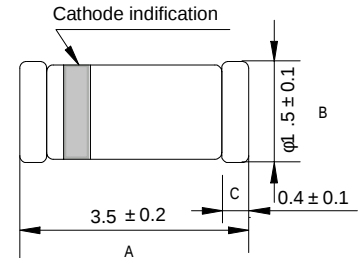




LL34 (SOD-80)



Dimensions in millimeters

Features

- V_R 50-200V
- I_F 250mA

Applications

- Extreme fast switches

Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	BAV			
				100	101	102	103
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	150	200
Repetitive Peak Reverse Voltage	V_R	V		60	120	200	250
Forward current	I_F	mA	60Hz Half-sine wave, Resistance load, $T_a=25^\circ\text{C}$	250			
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$	1			
Junction Temperature	T_J	$^\circ\text{C}$		-55~+175			
Storage Temperature	T_{STG}	$^\circ\text{C}$		-55 ~ +175			
Power Dissipation	P_{tot}	mW		400			

Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

Item	Symbol	Unit	Test Condition		Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=1.00\text{ mA}$ $I_{FM}=2.00\text{ mA}$		1.00 1.25
Peak Reverse Current	I_{RRM}	μA	$V_{RM}=V_R$	$T_a=25^\circ\text{C}$	0.1
Reverse recovery time	t_{rr}	ns	$I_F=30\text{mA}$ to $I_R=30\text{mA}$, $I_{rr}=3\text{mA}$, $R_L=100\Omega$		50
Diode capacitance	C_d	pF	$V_R=0$, $f=1\text{MHz}$		5

Typical Characteristics

Figure 1. Reverse Current vs. Junction Temperature

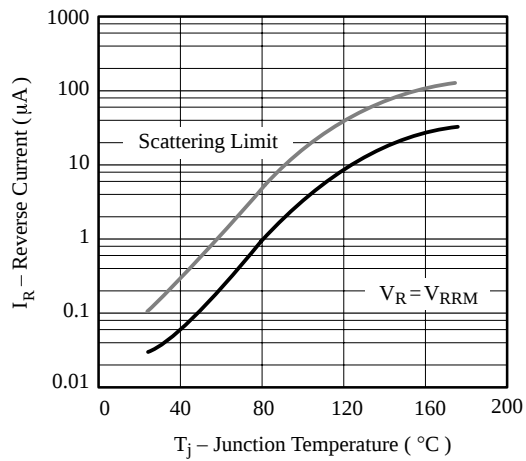


Figure 2. Forward Current vs. Forward Voltage

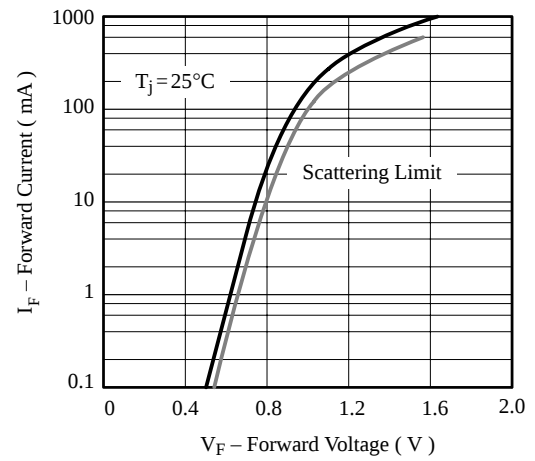


Figure 3. Differential Forward Resistance vs. Forward Current

