

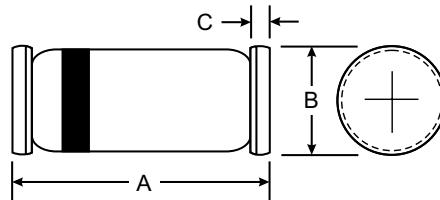


Features

- Integrated protection ring against
- static discharge
- Low capacitance
- Low leakage current
- Low forward voltage drop

Mechanical Data

- Case: LL34
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: MiniMELF 0.05 grams
- Marking: Cathode Band Only



LL34/ SOD-80		
Dim	Min	Max
A	3.30	3.70
B	1.30	1.60
C	0.28	0.50

All Dimensions in mm

Absolute Maximum Ratings $T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified

Parameter	Test condition	Part	Symbol	Value	Unit
Reverse voltage		LS101A	V_R	60	V
		LS101B	V_R	50	V
		LS101C	V_R	40	V
Peak forward surge current	$t_p = 10 \mu\text{s}$		I_{FSM}	2	A
Repetitive peak forward current			I_{FRM}	150	mA
Forward current			I_F	30	mA

Thermal Characteristics $T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified

Parameter	Test condition	Symbol	Value	Unit
Junction ambient	on PC board 50 mmx50 mmx1.6 mm	R_{thJA}	320	K/W
Junction temperature		T_j	125	°C
Storage temperature range		T_{stg}	- 65 to + 150	°C

Electrical Characteristics

$T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified

Parameter	Test condition	Part	Symbol	Min	Typ.	Max	Unit
Reverse Breakdown Voltage	$I_R = 10 \mu\text{A}$	LS101A	$V_{(BR)R}$	60			V
		LS101B	$V_{(BR)R}$	50			V
		LS101C	$V_{(BR)R}$	40			V
Leakage current	$V_R = 50 \text{ V}$	LS101A	I_R			200	nA
	$V_R = 40 \text{ V}$	LS101B	I_R			200	nA
	$V_R = 30 \text{ V}$	LS101C	I_R			200	nA
Forward voltage drop	$I_F = 1 \text{ mA}$	LS101A	V_F			0.41	V
		LS101B	V_F			0.4	V
		LS101C	V_F			0.39	V
	$I_F = 15 \text{ mA}$	LS101A	V_F			1	V
		LS101B	V_F			0.95	V
		LS101C	V_F			0.9	V
Diode capacitance	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$	LS101A	C_D			2.0	pF
		LS101B	C_D			2.1	pF
		LS101C	C_D			2.2	pF

Typical Characteristics ($T_{amb} = 25^{\circ}\text{C}$ unless otherwise specified)

