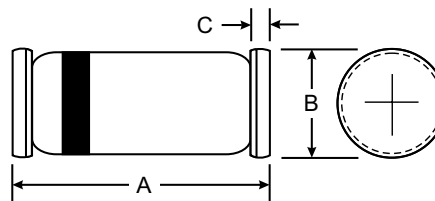


Features

- Integrated protection ring against static discharge
- Low capacitance
- Low leakage current
- Low forward voltage drop
- Lead (Pb)-free component
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC



SOD-80		
Dim	Min	Max
A	3.30	3.70
B	1.30	1.60
C	0.28	0.50
All Dimensions in mm		

Mechanical Data

- **Case:** SOD-80 Glass case
- **Weight:** approx. 34 mg
- **Cathode Band Color:** Black
- **Packaging Codes/Options:**
 GS18 / 10 k per 13" reel (8 mm tape), 10 k/box
 GS08 / 2.5 k per 7" reel (8 mm tape), 12.5 k/box

Maximum Ratings and Electrical Characteristics @ T_A = 25°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 μs		I _{FSM}	2	A		
Repetitive peak forward current			I _{FRM}	150	mA		
Forward continuous current			I _F	30	mA		
Parameter	Test condition	Part	Symbol	Min	Typ.	Max	Unit
Reverse Breakdown Voltage	I _R = 10 μA	LS101A	V _{(BR)R}	60			V
		LS101B	V _{(BR)R}	50			V
		LS101C	V _{(BR)R}	40			V
Leakage current	V _R = 50 V	LS101A	I _R			200	nA
	V _R = 40 V	LS101B	I _R			200	nA
	V _R = 30 V	LS101C	I _R			200	nA
Forward voltage drop	I _F = 1 mA	LS101A	V _F			410	mV
		LS101B	V _F			400	mV
		LS101C	V _F			390	mV
	I _F = 15 mA	LS101A	V _F			1000	mV
		LS101B	V _F			950	mV
		LS101C	V _F			900	mV
Diode capacitance	V _R = 0 V, f = 1 MHz	LS101A	C _D			2.0	pF
		LS101B	C _D			2.1	pF
		LS101C	C _D			2.2	pF

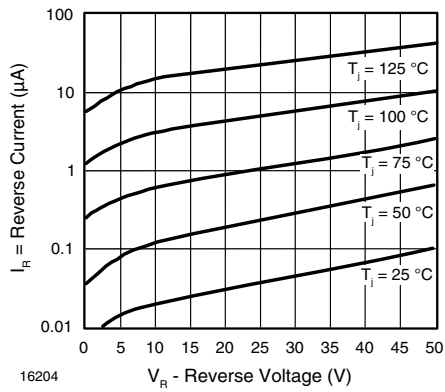


Figure 1. Reverse Current vs. Reverse Voltage

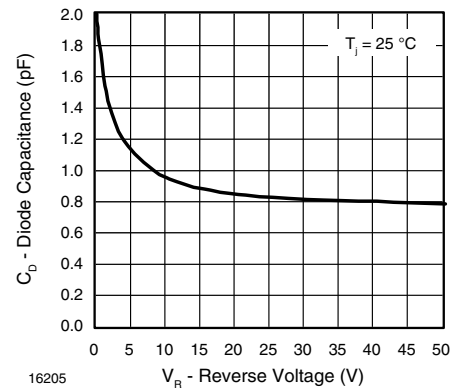


Figure 2. Diode Capacitance vs. Reverse Voltage

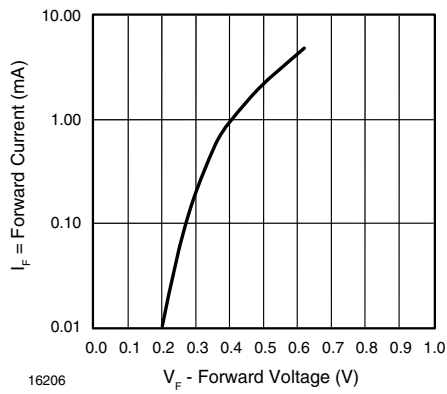


Figure 3. Forward Current vs. Forward Voltage