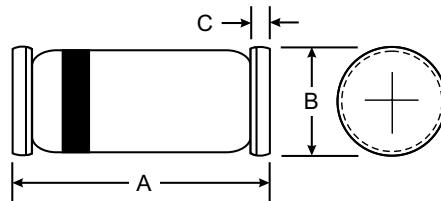


## Features

- 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

@  $T_A = 25^\circ\text{C}$  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 continuous current			$I_F$	30	mA		
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	$V_F$		410	mV	
		LS101B	$V_F$		400	mV	
		LS101C	$V_F$		390	mV	
	$I_F = 15 \text{ mA}$	LS101A	$V_F$		1000	mV	
		LS101B	$V_F$		950	mV	
		LS101C	$V_F$		900	mV	
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	

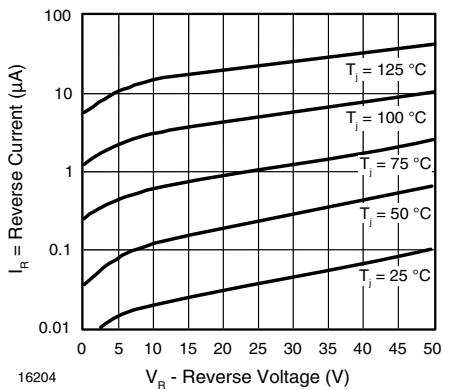


Figure 1. Reverse Current vs. Reverse Voltage

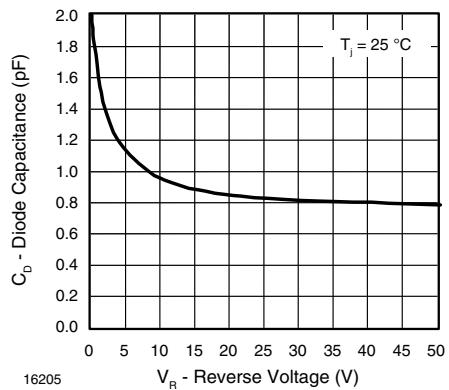


Figure 2. Diode Capacitance vs. Reverse Voltage

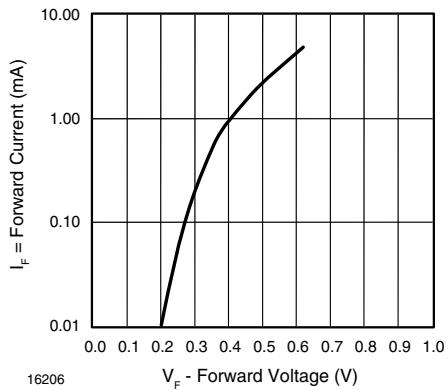


Figure 3. Forward Current vs. Forward Voltage