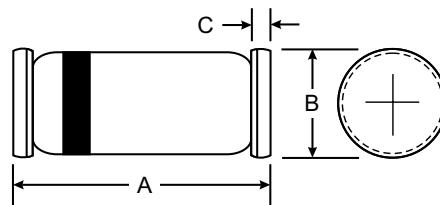


Features

- 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

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



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

All Dimensions in mm

Maximum Ratings and Electrical Characteristics

@ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Test condition	Part	Symbol	Value		Unit
Reverse voltage		LS103A	V_R	40		V
		LS103B	V_R	30		V
		LS103C	V_R	20		V
Peak forward surge current	$t_p = 300 \mu\text{s}$, square pulse		I_{FSM}	15		A
Power dissipation	$I = 4 \text{ mm}$, $T_L = \text{constant}$		P_{tot}	400		mW
Parameter	Test condition	Part	Symbol	Min	Typ.	Max
Reverse Breakdown Voltage	$I_R = 10 \mu\text{A}$	LS103A	$V_{(BR)R}$	40		V
		LS103B	$V_{(BR)R}$	30		V
		LS103C	$V_{(BR)R}$	20		V
Leakage current	$V_R = 30 \text{ V}$	LS103A	I_R			μA
	$V_R = 20 \text{ V}$	LS103B	I_R			μA
	$V_R = 10 \text{ V}$	LS103C	I_R			μA
Forward voltage drop	$I_F = 20 \text{ mA}$		V_F		370	mV
	$I_F = 200 \text{ mA}$		V_F		600	mV
Diode capacitance	$V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$		C_D	50		pF
Reverse recovery time	$I_F = I_R = 50 \text{ to } 200 \text{ mA}$, recover to $0.1 I_R$		t_{rr}	10		ns

