

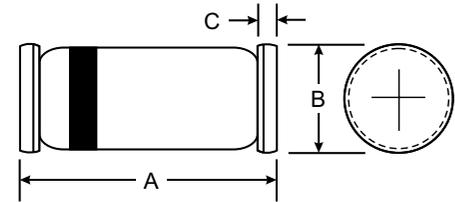


Features

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

Mechanical Data

- Case: SOD-80/LL34, Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.05 grams (approx.)



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		



Maximum Ratings @ T_A = 25°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 μs, square pulse		I _{FSM}	15	A
Power dissipation	l = 4 mm, T _L = constant		P _{tot}	400	mW

Thermal Characteristics @ T_A = 25°C unless otherwise specified

Parameter	Test condition	Symbol	Value	Unit
Junction ambient	l = 4mm, T _L = constant	R _{thJA}	250	K/W
Junction temperature		T _j	125	°C
Storage temperature range		T _{stg}	- 65 to + 150	°C

Electrical Characteristics

Parameter	Test condition	Part	Symbol	Min	Typ.	Max	Unit
Reverse Breakdown Voltage	I _R = 10 μA	LS103A	V _{(BR)R}	40			V
		LS103B	V _{(BR)R}	30			V
		LS103C	V _{(BR)R}	20			V
Leakage current	V _R = 30 V	LS103A	I _R			5	μA
	V _R = 20 V	LS103B	I _R			5	μA
	V _R = 10 V	LS103C	I _R			5	μA
Forward voltage drop	I _F = 20 mA		V _F			0.37	V
	I _F = 200 mA		V _F			0.6	V
Diode capacitance	V _R = 0 V, f = 1 MHz		C _D		50		pF
Reverse recovery time	I _F = I _R = 50 to 200 mA, recover to 0.1 I _R		t _{rr}		10		ns

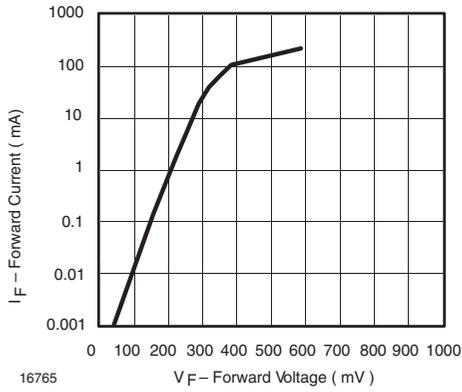


Fig. 1 Forward Current vs. Forward Voltage

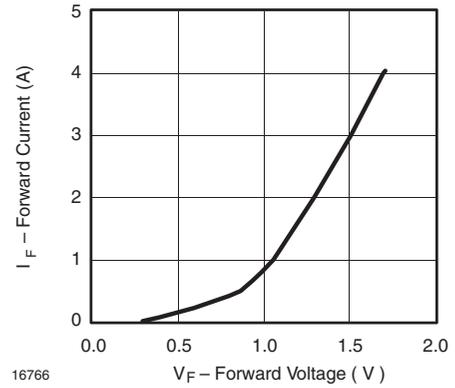


Fig. 2 Forward Current vs. Forward Voltage

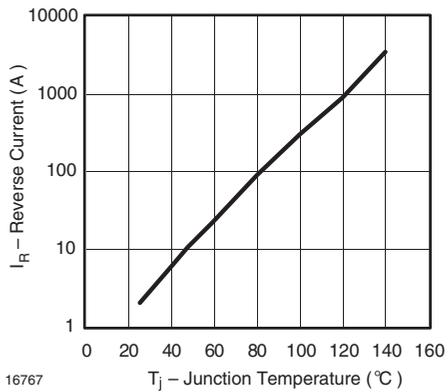


Fig. 3 Reverse Current vs. Junction Temperature

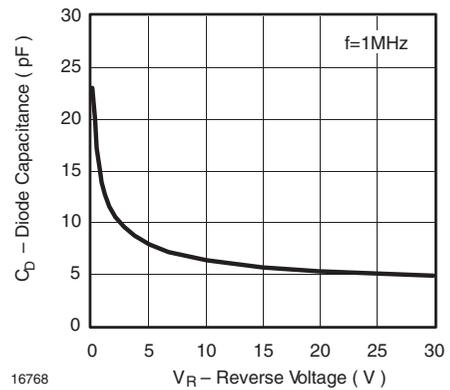


Fig. 4 Diode Capacitance vs. Reverse Voltage

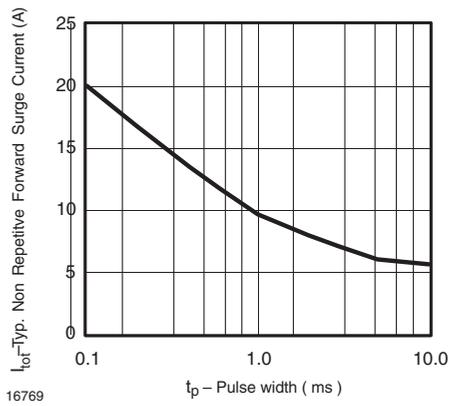


Fig. 5 Typ. Non Repetitive Forward Surge Current vs. Pulse width