

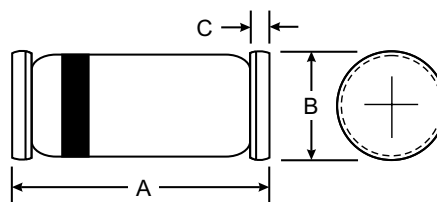
VOLTAGE RANGE: 50V
CURRENT: 0.2A

Features

- Integrated protection ring against static discharge
- Very low forward voltage

Mechanical Data

- Case: LL34 (SOD-80)
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: MiniMELF 0.05 grams



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 Conditions	Type	Symbol	Value	Unit
Reverse voltage			V _R	50	V
Peak forward surge current	t _p =10 ms		I _{FSM}	5	A
Repetitive peak forward current	t _p ≤1s		I _{FRM}	500	mA
Forward current			I _F	200	mA
Average forward current			I _{FAV}	200	mA
Junction temperature			T _j	125	°C
Storage temperature range			T _{stg}	-65...+150	°C

Maximum Thermal Resistance T_j = 25°C

Parameter	Test Conditions	Symbol	Value	Unit
Junction ambient	on PC board 50mmx50mmx1.6mm	R _{thJA}	320	K/W

Electrical Characteristics T_j = 25 °C

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F =0.1mA		V _F			300	mV
	I _F =1mA		V _F			380	mV
	I _F =10mA		V _F			450	mV
	I _F =30mA		V _F			600	mV
	I _F =100mA		V _F			900	mV
Reverse current	V _R =40V		I _R			5	μA
Diode capacitance	V _R =1V, f=1MHz		C _D			8	pF

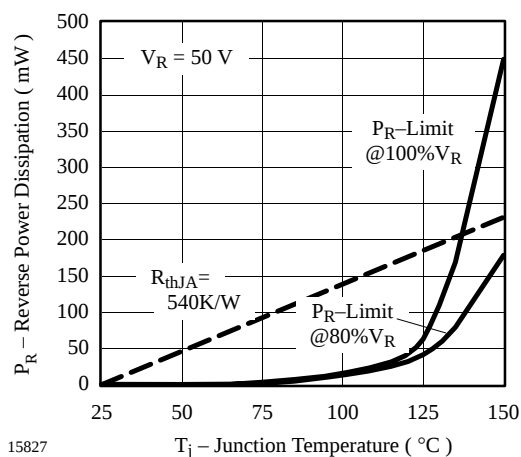


Figure 1. Max. Reverse Power Dissipation vs. Junction Temperature

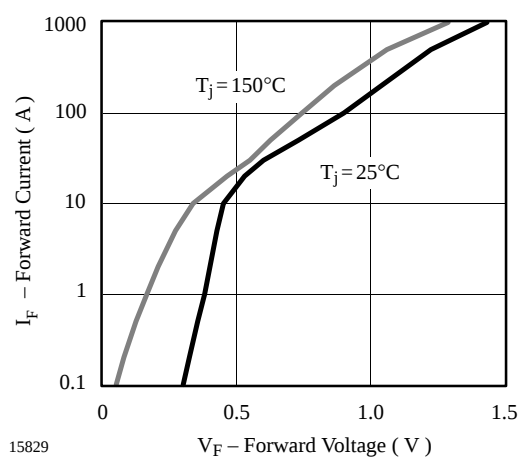


Figure 3. Forward Current vs. Forward Voltage

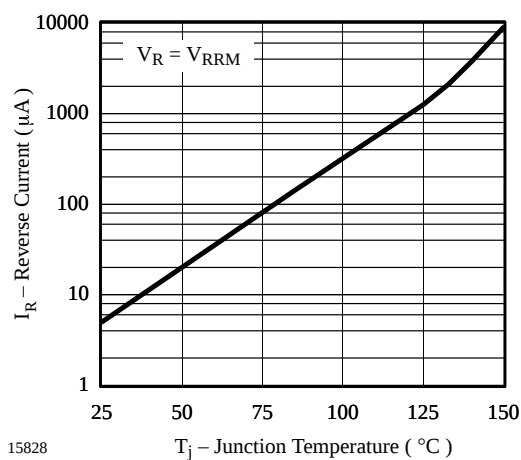


Figure 2. Reverse Current vs. Junction Temperature

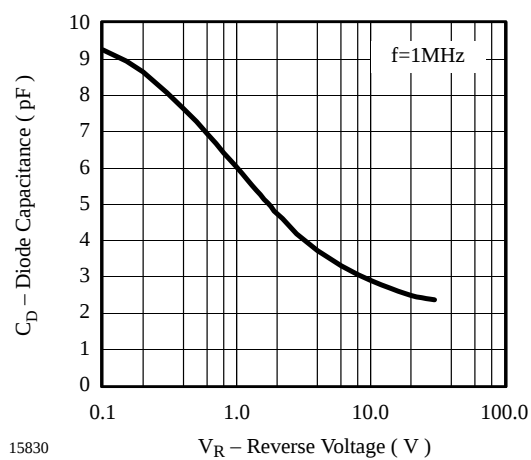


Figure 4. Diode Capacitance vs. Reverse Voltage