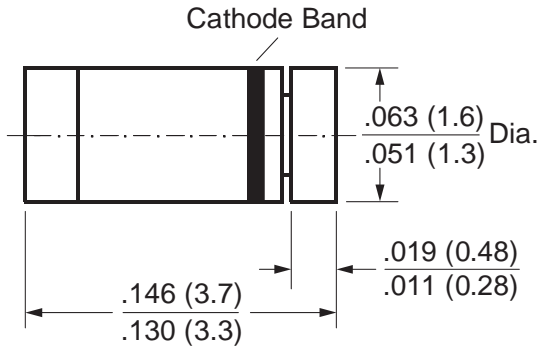


## Schottky Diode

MiniMELF (SOD-80C)



Dimensions in inches and (millimeters)

### Features

- For general purpose applications
- This diode features low turn-on voltage.
- The devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges.
- This diode is also available in a DO-35 case with type designation BAT85.

### Mechanical Data

**Case:** MiniMELF Glass Case (SOD-80C)

**Weight:** approx. 0.05g

### Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Continuous Reverse Voltage	V <sub>R</sub>	30	V
Forward Continuous Current at T <sub>amb</sub> = 25°C	I <sub>F</sub>	200 <sup>(1)</sup>	mA
Peak Forward Current at T <sub>amb</sub> = 25°C	I <sub>FM</sub>	300 <sup>(1)</sup>	mA
Surge Forward Current at t <sub>p</sub> < 1s, T <sub>amb</sub> = 25°C	I <sub>FSM</sub>	600 <sup>(1)</sup>	mA
Power Dissipation at T <sub>amb</sub> = 65°C	P <sub>tot</sub>	200 <sup>(1)</sup>	mW
Thermal Resistance Junction to Ambient Air	R <sub>θJA</sub>	430 <sup>(1)</sup>	°C/W
Junction Temperature	T <sub>j</sub>	125	°C
Storage Temperature Range	T <sub>S</sub>	-55 to +150	°C

### Electrical Characteristics (T<sub>J</sub> = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	I <sub>R</sub> = 10μA (pulsed)	30	—	—	V
Leakage Current	I <sub>R</sub>	V <sub>R</sub> = 25V	—	0.2	2	μA
Forward Voltage	V <sub>F</sub>	Pulse Test t <sub>p</sub> < 300μs I <sub>F</sub> = 0.1mA I <sub>F</sub> = 1mA I <sub>F</sub> = 10mA I <sub>F</sub> = 30mA I <sub>F</sub> = 100mA	—	—	0.24 0.32 0.4 — 0.8	V
Capacitance	C <sub>tot</sub>	V <sub>R</sub> = 1V, f = 1MHz	—	—	10	pF
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> = 10mA, I <sub>R</sub> = 10mA I <sub>R</sub> = 1mA	—	—	5	ns

**Note:** (1) Valid provided that electrodes are kept at ambient temperature.