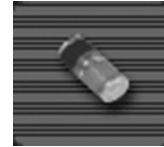
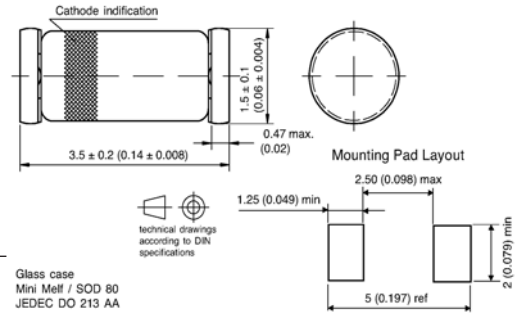


## Features

- ◆ 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 the DO-35 case with type designation BAT85.

## Mechanical Data

- ◆ Case: MiniMELF Glass Case (SOD-80)
- ◆ Weight: approx. 0.05 grams
- ◆ Cathode Band Color: Green



## Maximum Ratings and Thermal Characteristics

( $T_A=25^\circ\text{C}$  unless otherwise noted.)

Parameter	Symbol	Value	Unit
Continuous reverse voltage	$V_R$	30	Volts
Forward continuous current at $T_{amb}=25^\circ\text{C}$	$I_F$	200 <sup>(1)</sup>	mA
Peak forward current at $T_{amb}=25^\circ\text{C}$	$I_{FM}$	300 <sup>(1)</sup>	mA
Surge forward current at $t_p < 1\text{s}$ , $T_{amb}=25^\circ\text{C}$	$I_{FSM}$	600 <sup>(1)</sup>	mA
Power dissipation at $T_{amb}=65^\circ\text{C}$	$P_{tot}$	200 <sup>(1)</sup>	mW
Thermal resistance junction to ambient air	$R_{\theta JA}$	430 <sup>(1)</sup>	$^\circ\text{C/W}$
Junction temperature	$T_J$	125	$^\circ\text{C}$
Storage temperature range	$T_S$	-55 to +150	$^\circ\text{C}$

## Electrical Characteristics

( $T_J=25^\circ\text{C}$  unless otherwise noted.)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=10\mu\text{A}$ (pulsed)	30	-	-	Volts
Leakage current	$I_R$	$V_R=25\text{V}$	-	0.2	2	$\mu\text{A}$
Forward voltage	$V_F$	Pulse Test $t_p < 300\mu\text{s}$ $I_F=0.1\text{mA}$ $I_F=1\text{mA}$ $I_F=10\text{mA}$ $I_F=30\text{mA}$ $I_F=100\text{mA}$	-	-	0.24 0.32 0.4 -	Volt
Capacitance	$C_{tot}$	$V_R=1\text{V}$ , $f=1\text{MHz}$	-	-	10	pF
Reverse recovery time	$t_{rr}$	$I_F=10\text{mA}$ , $I_R=10\text{mA}$ , $I_R=1\text{mA}$	-	-	5	ns

**Notes:** 1. Valid provided that electrodes are kept at ambient temperature.