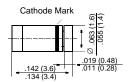
## **LL48**

## **Schottky Diodes**

#### **Mini-MELF**



Dimensions in inches and (millimeters)

### **FEATURES**

- ♦ For general purpose applications.
- These diodes feature low turn-on voltage and high break-down voltage. These 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 BAT48.

### **MECHANICAL DATA**

Case: Mini-MELF Glass Case (SOD-80)

Weight: approx. 0.05 g

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

Symbol	Value	Unit V	
V <sub>RRM</sub>	40		
I <sub>F</sub>	350 <sup>1)</sup>	mA	
I <sub>FRM</sub>	1 <sup>1)</sup>	А	
I <sub>FSM</sub>	7.5 <sup>1)</sup>	А	
P <sub>tot</sub>	330 <sup>1)</sup>	mW	
Tj	125	°C	
T <sub>amb</sub>	-55 to +125	°C	
T <sub>S</sub>	-65 to +150	°C	
	V <sub>RRM</sub> I <sub>F</sub> I <sub>FRM</sub> I <sub>FSM</sub> P <sub>tot</sub> T <sub>j</sub> T <sub>amb</sub>	V <sub>RRM</sub> 40  I <sub>F</sub> 350 <sup>1)</sup> I <sub>FRM</sub> 1 <sup>1)</sup> I <sub>FSM</sub> 7.5 <sup>1)</sup> P <sub>tot</sub> 330 <sup>1)</sup> T <sub>j</sub> 125  T <sub>amb</sub> -55 to +125	



# LL48

## **ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature unless otherwise specified

	Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage tested with 100 µA Pulses	V <sub>(BR)R</sub>	40	-	-	V
Forward Voltage Pulse Test $t_p < 300~\mu s,~\delta < 2\%$ at $I_F = 0.1~mA$ at $I_F = 10~mA$ at $I_F = 250~mA$	V <sub>F</sub> V <sub>F</sub> V <sub>F</sub>	- - -	- - -	0.25 0.40 0.90	V V V
Leakage Current Pulse Test $t_p < 300~\mu s$ , $\delta < 2\%$ at $V_R = 10~V$ at $V_R = 10~V$ , $T_j = 60~^{\circ}C$ at $V_R = 20~V$ , $T_j = 60~^{\circ}C$ at $V_R = 20~V$ , $T_j = 60~^{\circ}C$ at $V_R = 40~V$ at $V_R = 40~V$ , $T_j = 60~^{\circ}C$	I <sub>R</sub> I <sub>R</sub> I <sub>R</sub> I <sub>R</sub> I <sub>R</sub>	- - - - -	- - - -	2 15 5 25 25 50	μΑ μΑ μΑ μΑ μΑ
Capacitance at V <sub>R</sub> = 1 V, f = 1 MHz	C <sub>tot</sub>	_	12	_	pF
Thermal Resistance Junction to Ambient Air	R <sub>thJA</sub>	_	_	0.31)	K/mW

