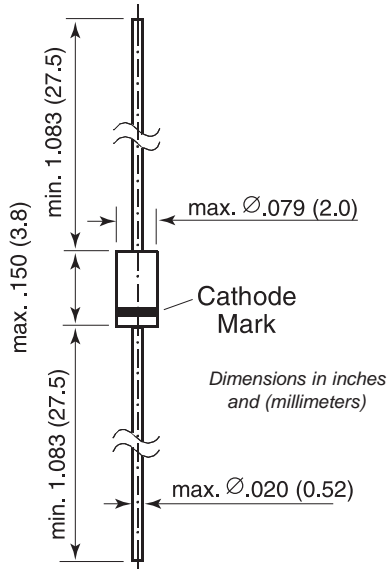


## Schottky Diodes


**DO-204AH (DO-35 Glass)**


### Features

- For general purpose applications
- These diodes feature very low turn-on voltage and fast switching. These devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges
- This diode is also available in the Mini-MELF case with type designations LL46

### Mechanical Data

**Case:** DO-35 Glass Case

**Weight:** approx. 0.13g

**Packaging Codes/Options:**

D7/10K per 13" reel (52mm tape), 20K/box

D8/10K per Ammo tape (52mm tape), 20K/box

### Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

| Parameter  | Symbol          | Value              | Unit                        |
|--|-----------------|--------------------|-----------------------------|
| Repetitive Peak Reverse Voltage  | $V_{RRM}$       | 40                 | V                           |
| Forward Continuous Current at $T_{amb} = 25^{\circ}\text{C}$   | $I_F$           | 350 <sup>(1)</sup> | mA                          |
| Repetitive Peak Forward Current at $t_p < 1\text{s}$ , $\delta < 0.5$ , $T_{amb} = 25^{\circ}\text{C}$ | $I_{FRM}$       | 1.0 <sup>(1)</sup> | A                           |
| Surge Forward Current at $t_p < 10\text{ms}$ , $T_{amb} = 25^{\circ}\text{C}$                          | $I_{FSM}$       | 7.5 <sup>(1)</sup> | A                           |
| Power Dissipation <sup>(1)</sup> at $T_{amb} = 65^{\circ}\text{C}$                                     | $P_{tot}$       | 330 <sup>(1)</sup> | mW                          |
| Thermal Resistance Junction to Ambient Air   | $R_{\theta JA}$ | 300 <sup>(1)</sup> | $^{\circ}\text{C}/\text{W}$ |
| Junction Temperature   | $T_j$           | 125                | $^{\circ}\text{C}$          |
| Ambient Operating Temperature Range  | $T_{amb}$       | -65 to +125        | $^{\circ}\text{C}$          |
| Storage Temperature Range  | $T_s$           | -65 to +150        | $^{\circ}\text{C}$          |

**Note:** (1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature

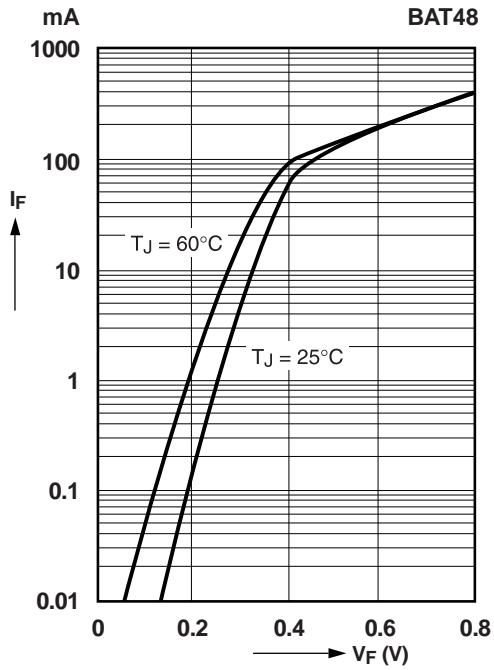
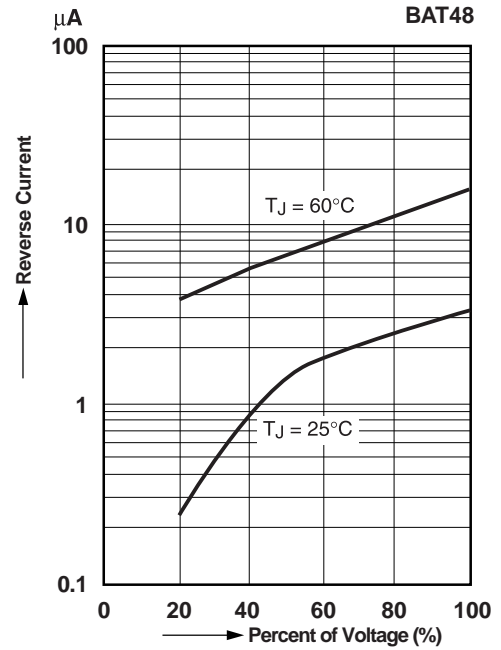


## Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

| Parameter  | Symbol      | Min.                       | Typ.                       | Max.   | Unit |
|--|-------------|----------------------------|----------------------------|--|------|
| Reverse Breakdown Voltage<br>tested with 100μA Pulses  | $V_{(BR)R}$ | 40                         | –                          | –  | V    |
| Forward Voltage<br>Pulse Test $t_p < 300\mu s$ , $\delta < 2\%$<br>at $I_F = 0.1mA$<br>at $I_F = 1.0mA$<br>at $I_F = 10mA$<br>at $I_F = 50mA$<br>at $I_F = 200mA$<br>at $I_F = 500mA$  | $V_F$       | –<br>–<br>–<br>–<br>–<br>– | –<br>–<br>–<br>–<br>–<br>– | 0.25<br>0.30<br>0.40<br>0.50<br>0.75<br>0.90 | V    |
| Leakage Current<br>Pulse Test $t_p < 300\mu s$ , $\delta < 2\%$<br>at $V_R = 10V$<br>at $V_R = 10V$ , $T_J = 60^\circ C$<br>at $V_R = 20V$<br>at $V_R = 20V$ , $T_J = 60^\circ C$<br>at $V_R = 40V$<br>at $V_R = 40V$ , $T_J = 60^\circ C$ | $I_R$       | –<br>–<br>–<br>–<br>–<br>– | –<br>–<br>–<br>–<br>–<br>– | 2<br>15<br>5<br>25<br>25<br>50               | μA   |
| Capacitance<br>at $V_R = 1V$ , $f = 1MHz$  | $C_{tot}$   | –                          | 12                         | –  | pF   |

**Note:** (1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature (DO-35)

**Ratings and Characteristic Curves** ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

**Forward Characteristics**

**Typical Reverse Characteristics**

**Admissible Power Dissipation vs. Ambient Temperature**
