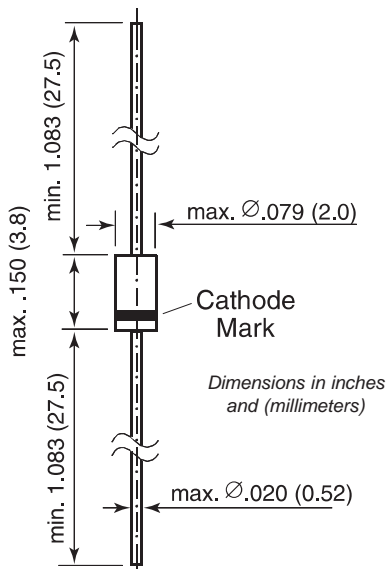


Schottky Diodes



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°C | I _F | 350 ⁽¹⁾ | mA |
| Repetitive Peak Forward Current at t _p < 1s, δ < 0.5, T _{amb} = 25°C | I _{FRM} | 1.0 ⁽¹⁾ | A |
| Surge Forward Current at t _p < 10 ms, T _{amb} = 25°C | I _{FSM} | 7.5 ⁽¹⁾ | A |
| Power Dissipation ⁽¹⁾ at T _{amb} = 65°C | P _{tot} | 330 ⁽¹⁾ | mW |
| Thermal Resistance Junction to Ambient Air | R _{θJA} | 300 ⁽¹⁾ | °C/W |
| Junction Temperature | T _j | 125 | °C |
| Ambient Operating Temperature Range | T _{amb} | -65 to +125 | °C |
| Storage Temperature Range | T _s | -65 to +150 | °C |

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

BAT48

Vishay Semiconductors
formerly General Semiconductor

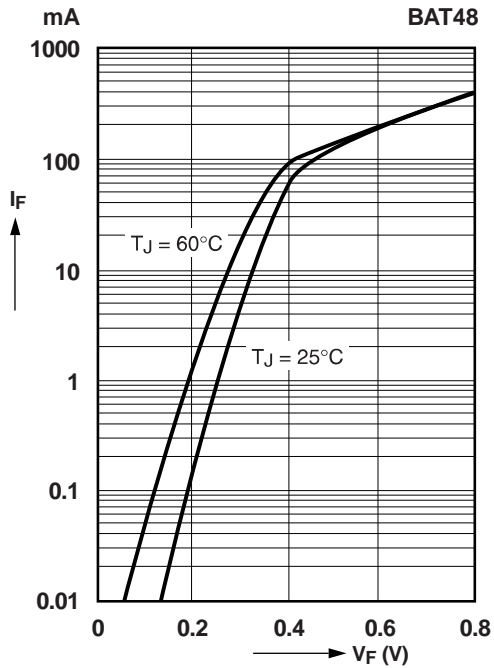
Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

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

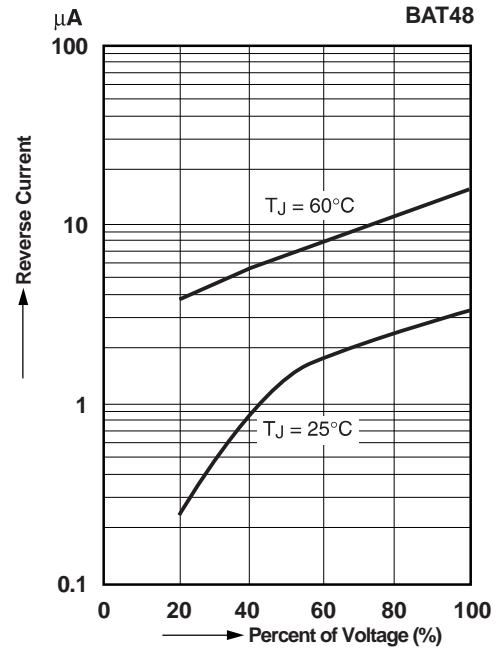
Note: (1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature (DO-35)

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

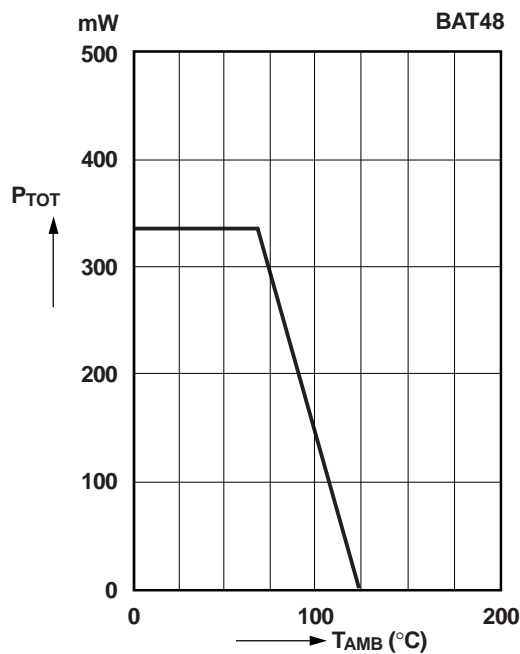
Forward Characteristics



Typical Reverse Characteristics



Admissible Power Dissipation vs. Ambient Temperature



RoboPardaz.com

مرجع دیتاشیت و اطلاعات روباتیک