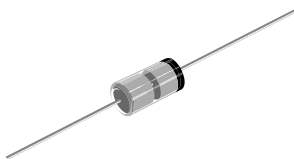
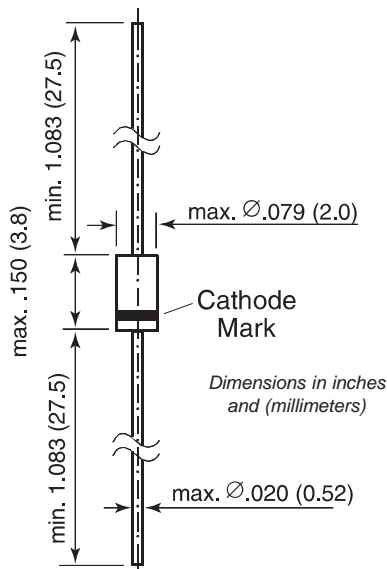


Schottky Diodes



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

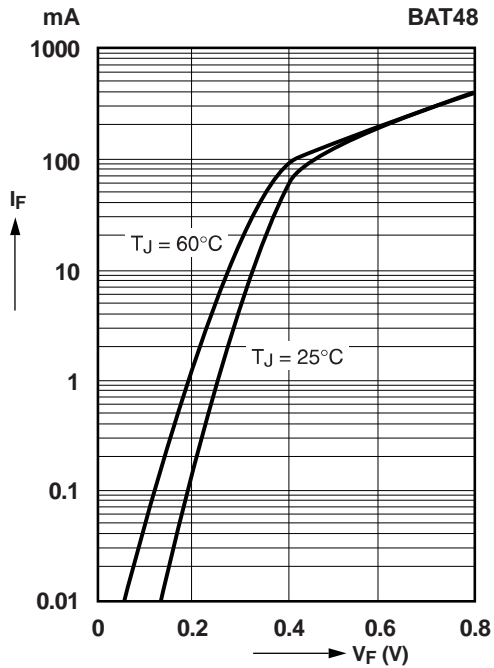
Ratings at 25°C ambient temperature unless otherwise specified.

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

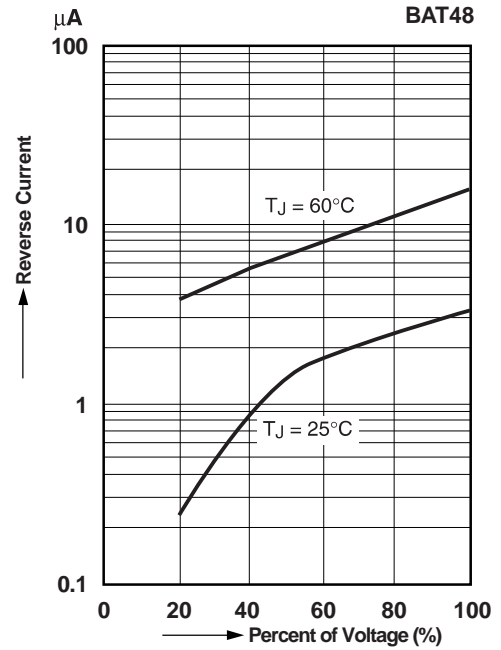
Note: (1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature (DO-35)

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

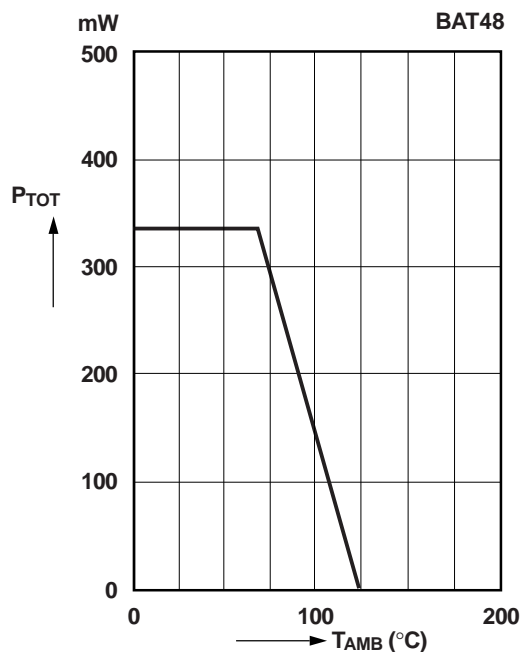
Forward Characteristics



Typical Reverse Characteristics



Admissible Power Dissipation vs. Ambient Temperature



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