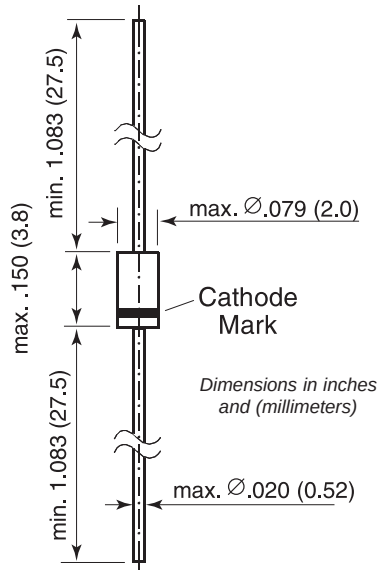


Schottky Diode

DO-204AH (DO-35 Glass)


Features

- For general purpose applications
- This diode features low turn-on voltage and high breakdown voltage. This device is protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges
- This diode is also available in a MiniMELF case with type designation LL41

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}	100	V
Forward Continuous Current at $T_{amb} = 25^{\circ}C$	I_F	100 ⁽¹⁾	mA
Repetitive Peak Forward Current at $t_p < 1s$, @ < 0.5 , $T_{amb} = 25^{\circ}C$	I_{FRM}	350 ⁽¹⁾	mA
Surge Forward Current at $t_p = 10 ms$, $T_{amb} = 25^{\circ}C$	I_{FSM}	750 ⁽¹⁾	A
Power Dissipation at $T_{amb} = 25^{\circ}C$	P_{tot}	400 ⁽¹⁾	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	300 ⁽¹⁾	$^{\circ}C/W$
Junction Temperature	T_j	125	$^{\circ}C$
Ambient Operating Temperature Range	T_{amb}	-65 to +125	$^{\circ}C$
Storage Temperature Range	T_s	-65 to +150	$^{\circ}C$

Electrical Characteristics ($T_j = 25^{\circ}C$ unless otherwise noted)

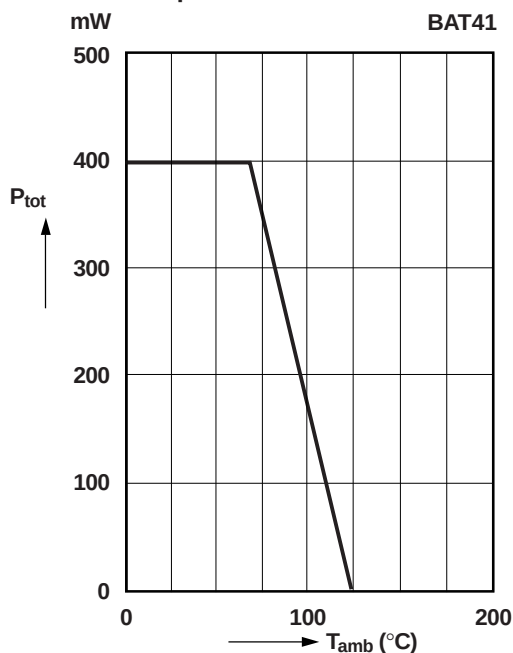
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage ⁽²⁾	$V_{(BR)R}$	$I_R = 100\mu A$	100	110	—	V
Leakage Current ⁽²⁾	I_R	$V_R = 50V$, $T_j = 25^{\circ}C$ $V_R = 50V$, $T_j = 100^{\circ}C$	—	—	100 20	nA μA
Forward Voltage ⁽²⁾	V_F	$I_F = 1mA$ $I_F = 200mA$	—	0.40 —	0.45 1.0	V
Capacitance	C_{tot}	$V_R = 1 V$, $f = 1MHz$	—	2	—	pF
Reverse Recovery Time	t_{rr}	$I_F = 10 mA$, $I_R = 10mA$ $I_{rr} = 1 mA$, $R_L = 100 \Omega$	—	5	—	ns

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

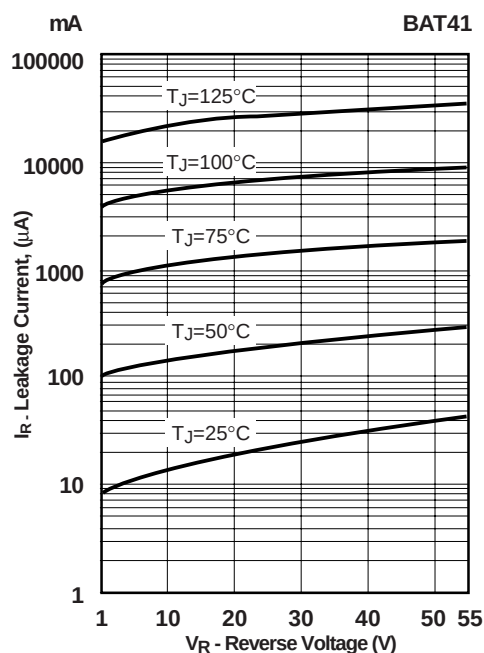
(2) Pulse test, $t_p = 300\mu s$

Ratings and Characteristic Curves

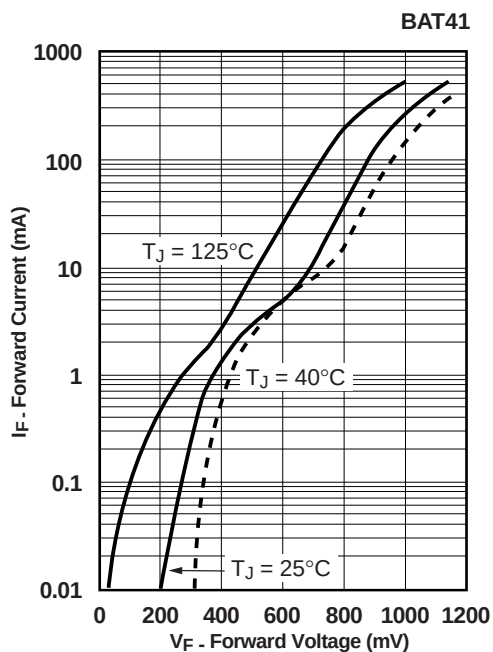
**Fig. 1 – Admissible Power
Dissipation vs. Ambient
Temperature**



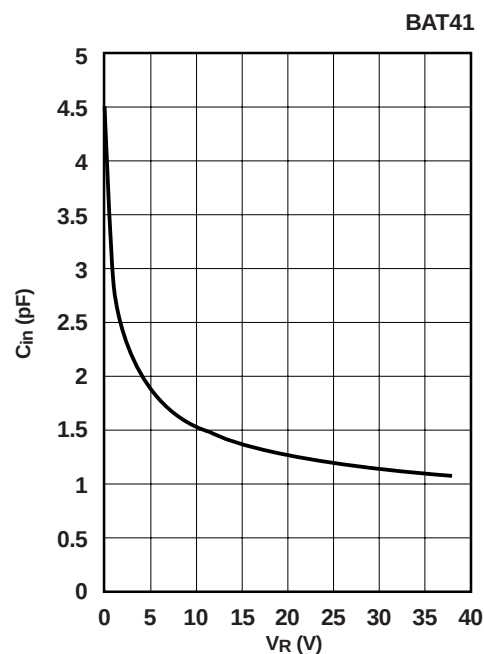
**Fig. 2 – Typical Reverse
Characteristics**



**Fig. 3 – Typical Forward
Characteristics**



**Fig. 4 – Typical Capacitance vs.
Reverse Voltage**



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