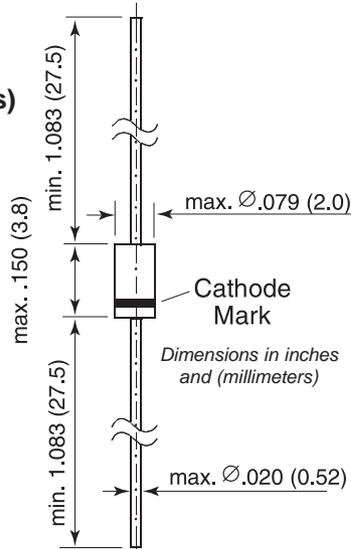


Schottky Diode


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


Features

- For general purpose applications.
- This diode features very low turn-on voltage and fast switching. This device is protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges
- This diode is also available in the SOD-123 case with type designation BAT46W and in the MiniMELF 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}	100	V
Forward Continuous Current at $T_{amb} = 25^{\circ}\text{C}$	I_F	150 ⁽¹⁾	mA
Repetitive Peak Forward Current at $t_p < 1\text{s}$, $\delta < 0.5$, $T_{amb} = 25^{\circ}\text{C}$	I_{FRM}	350 ⁽¹⁾	mA
Surge Forward Current at $t_p < 10\text{ms}$, $T_{amb} = 25^{\circ}\text{C}$	I_{FSM}	750 ⁽¹⁾	mA
Power Dissipation ⁽¹⁾ at $T_{amb} = 65^{\circ}\text{C}$	P_{tot}	150 ⁽¹⁾	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	0.3 ⁽¹⁾	$^{\circ}\text{C}/\text{mW}$
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	$^{\circ}\text{C}$

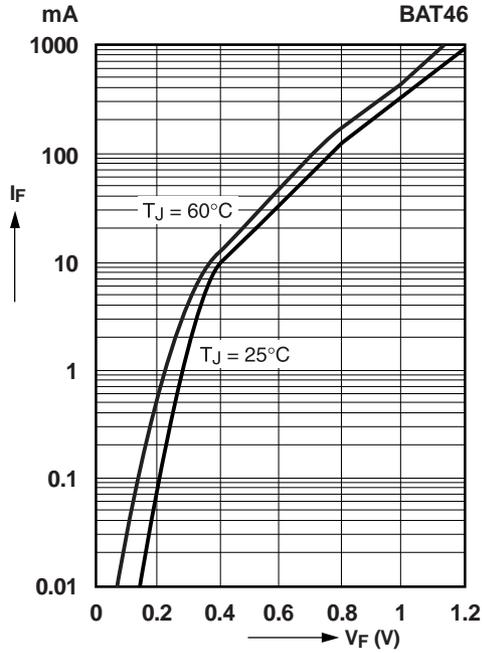
Electrical Characteristics ($T_j = 25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 100\mu\text{A}$ (pulsed)	100	—	—	V
Leakage Current Pulse Test $t_p < 300\mu\text{s}$, $\delta < 2\%$	I_R	$V_R = 1.5\text{V}$	—	—	0.5	μA
		$V_R = 1.5\text{V}$, $T_j = 60^{\circ}\text{C}$	—	—	5	
		$V_R = 10\text{V}$	—	—	0.8	
		$V_R = 10\text{V}$, $T_j = 60^{\circ}\text{C}$	—	—	7.5	
		$V_R = 50\text{V}$	—	—	2	
		$V_R = 50\text{V}$, $T_j = 60^{\circ}\text{C}$	—	—	15	
		$V_R = 75\text{V}$	—	—	5	
Forward Voltage Pulse Test $t_p < 300\mu\text{s}$, $\delta < 2\%$	V_F	$I_F = 0.1\text{mA}$	—	—	0.25	V
		$I_F = 10\text{mA}$	—	—	0.45	
		$I_F = 250\text{mA}$	—	—	1	
Capacitance	C_{tot}	$V_R = 0\text{V}$, $f = 1\text{MHz}$	—	10	—	pF
		$V_R = 1\text{V}$, $f = 1\text{MHz}$	—	6	—	

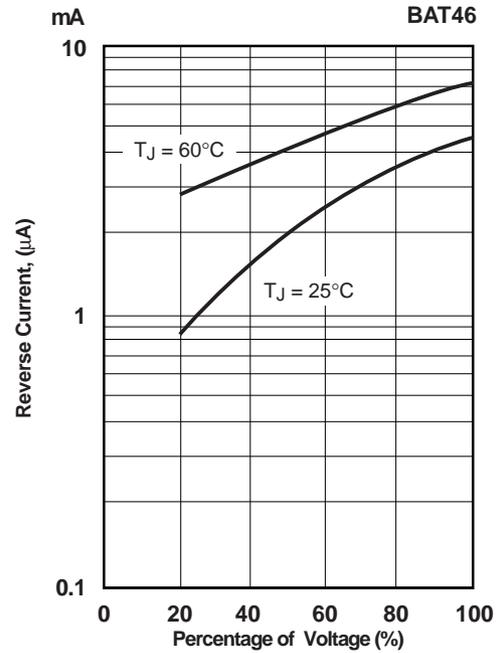
Note: (1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature

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

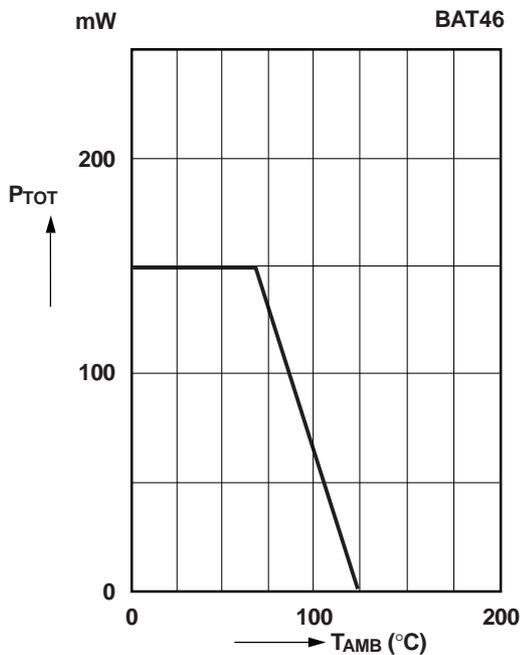
Forward Characteristics



Typical Reverse Characteristics



Admissible Power Dissipation vs. Ambient Temperature



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