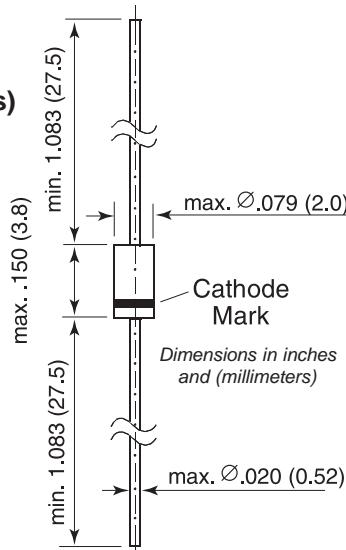




## Schottky Diode

**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 $T_{amb} = 25^\circ C$	$I_F$	150 <sup>(1)</sup>	mA
Repetitive Peak Forward Current at $t_p < 1s$ , $\delta < 0.5$ , $T_{amb} = 25^\circ C$	$I_{FRM}$	350 <sup>(1)</sup>	mA
Surge Forward Current at $t_p < 10ms$ , $T_{amb} = 25^\circ C$	$I_{FSM}$	750 <sup>(1)</sup>	mA
Power Dissipation <sup>(1)</sup> at $T_{amb} = 65^\circ C$	$P_{tot}$	150 <sup>(1)</sup>	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	0.3 <sup>(1)</sup>	°C/mW
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

### Electrical Characteristics

( $T_j = 25^\circ C$  unless otherwise noted)

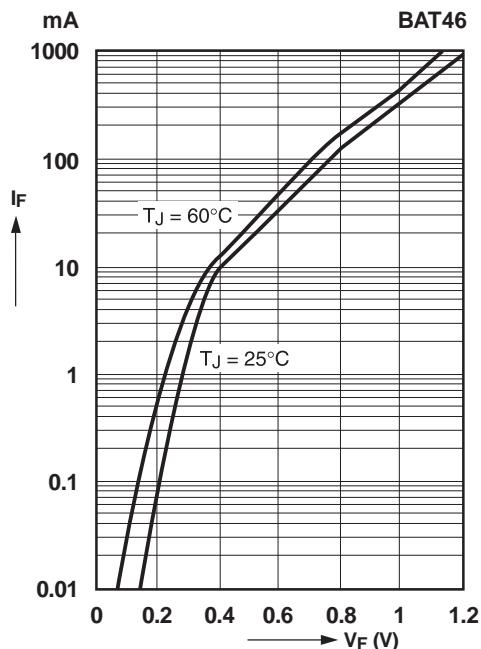
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 100\mu A$ (pulsed)	100	—	—	V
Leakage Current Pulse Test $t_p < 300\mu s$ , $\delta < 2\%$	$I_R$	$V_R = 1.5V$	—	—	0.5	
		$V_R = 1.5V$ , $T_j = 60^\circ C$	—	—	5	
		$V_R = 10V$	—	—	0.8	
		$V_R = 10V$ , $T_j = 60^\circ C$	—	—	7.5	
		$V_R = 50V$	—	—	2	
		$V_R = 50V$ , $T_j = 60^\circ C$	—	—	15	
		$V_R = 75V$	—	—	5	
		$V_R = 75V$ , $T_j = 60^\circ C$	—	—	20	
Forward Voltage Pulse Test $t_p < 300\mu s$ , $\delta < 2\%$	$V_F$	$I_F = 0.1mA$	—	—	0.25	
		$I_F = 10mA$	—	—	0.45	
		$I_F = 250mA$	—	—	1	
Capacitance	$C_{tot}$	$V_R = 0V$ , $f = 1MHz$	—	10	—	pF
		$V_R = 1V$ , $f = 1MHz$	—	6	—	

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

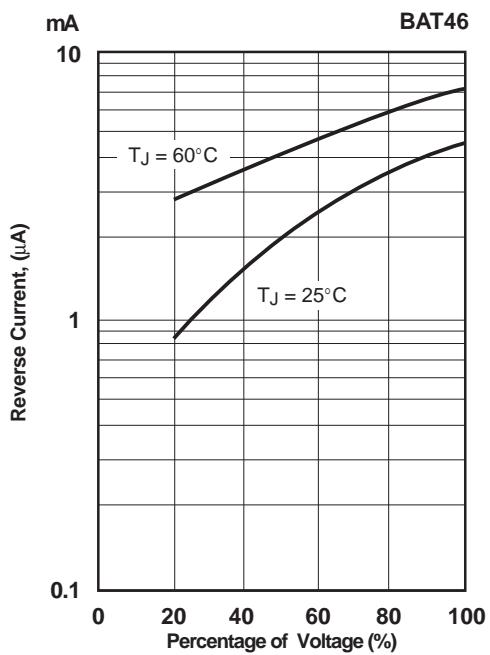
# BAT46

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

Forward Characteristics



Typical Reverse Characteristics



Admissible Power Dissipation vs. Ambient Temperature

