

## 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 MiniMELF case with type designation LL46.

## Mechanical Data

- ◆ Case: DO-35 Glass Case
- ◆ Weight: approx. 0.13g

## Maximum Ratings and Thermal Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Unit
Repetitive peak reverse voltage	$V_{RRM}$	100	Volts
Forward continuous current at $T_{amb}=25^{\circ}\text{C}$	$I_F$	150 <sup>(1)</sup>	mA
Repetitive peak forward current at $t_p < 1\text{s}$ , $\delta < 0.5$ , $T_{amb}=25^{\circ}\text{C}$	$I_{FRM}$	350 <sup>(1)</sup>	mA
Surge forward current at $t_p < 10\text{ms}$ , $T_{amb}=25^{\circ}\text{C}$	$I_{FSM}$	750 <sup>(1)</sup>	mA
Power dissipation <sup>(1)</sup> at $T_{amb}=65^{\circ}\text{C}$	$P_{tot}$	150 <sup>(1)</sup>	mW
Thermal resistance junction to ambient air	$R_{\theta JA}$	0.3 <sup>(1)</sup>	$^{\circ}\text{C}/\text{mW}$
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	$^{\circ}\text{C}$

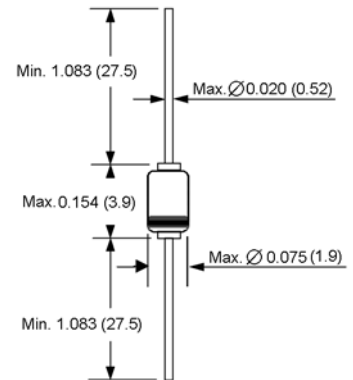
## Electrical Characteristics

( $T_j=25^{\circ}\text{C}$  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	-	-	Volts
Leakage current pulse test $t_p < 300\mu\text{s}$ , $\delta < 2\%$	$I_R$	$V_R=1.5\text{V}$	-	-	0.5	$\mu\text{A}$
		$V_R=1.5\text{V}$ , $T_j=60^{\circ}\text{C}$	-	-	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	Volt
		$I_F=10\text{mA}$	-	-	0.45	
		$I_F=250\text{mA}$	-	-	1.0	
Capacitance	$C_{tot}$	$V_R=0\text{V}$ , $f=1\text{MHz}$	-	10	-	pF
		$V_R=1\text{V}$ , $f=1\text{MHz}$	-	6	-	

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

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

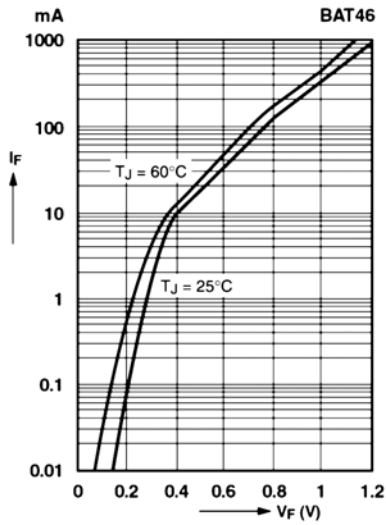


Dimensions in inches and (millimeters)

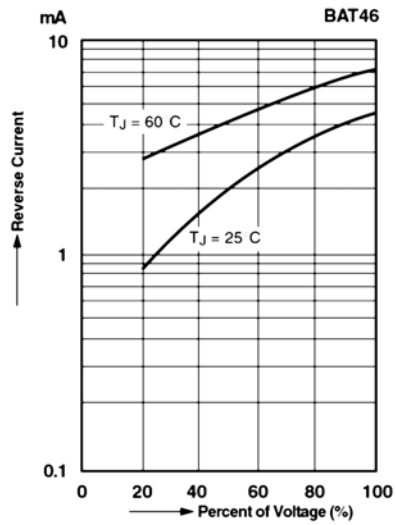


# RATINGS AND CHARACTERISTIC CURVES

Forward Characteristics



Typical Reverse Characteristics



Admissible Power Dissipation vs. Ambient Temperature

