

Features

- ◆ For general purpose applications.
- ◆ This diode features low turn-on voltage. This device is 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 BAS85.

Mechanical Data

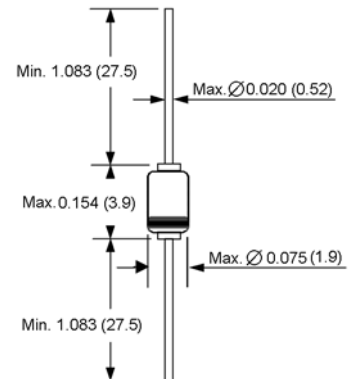
- ◆ Case: DO-35 Glass Case
- ◆ Weight: approx. 0.13g

Maximum Ratings and Thermal Characteristics

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

Parameter	Symbol	Value	Unit
Continuous reverse voltage	V_R	30	Volts
Forward continuous current at $T_{amb}=25^\circ\text{C}$	I_F	200 ⁽¹⁾	mA
Peak forward current at $T_{amb}=25^\circ\text{C}$	I_{FM}	300 ⁽¹⁾	mA
Surge forward current at $t_p < 1\text{s}$, $T_{amb}=25^\circ\text{C}$	I_{FSM}	600 ⁽¹⁾	mA
Power dissipation at $T_{amb}=65^\circ\text{C}$	P_{tot}	200 ⁽¹⁾	mW
Thermal resistance junction to ambient air	$R_{\theta JA}$	0.43 ⁽¹⁾	$^\circ\text{C}/\text{W}$
Maximum junction temperature	T_j	125	$^\circ\text{C}$
Ambient operating temperature range	T_A	-65 to +125	$^\circ\text{C}$
Storage temperature range	T_S	-65 to +150	$^\circ\text{C}$

DO-204AH (DO-35 Glass)



Dimensions in inches and (millimeters)



Electrical Characteristics

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

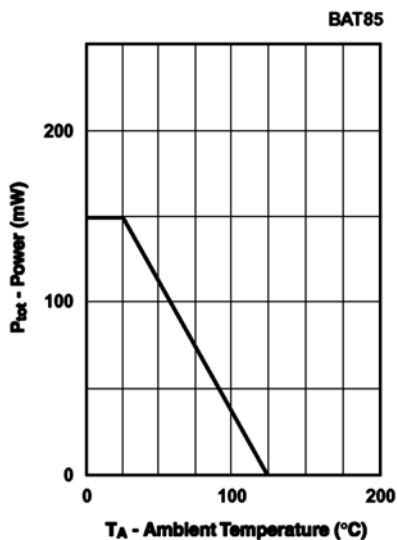
Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=10\mu\text{A}$ (pulsed)	30	-	-	Volts
Leakage current	I_R	$V_R=25\text{V}$	-	-	2	μA
Forward voltage pulse test $t_p < 300\mu\text{s}$, $\delta < 2\%$	V_F	$I_F=0.1\text{mA}$	-	-	0.24	Volt
		$I_F=1\text{mA}$	-	-	0.32	
		$I_F=10\text{mA}$	-	-	0.4	
		$I_F=30\text{mA}$	-	0.5	-	
		$I_F=100\text{mA}$	-	-	0.8	
Capacitance	C_{tot}	$V_R=1\text{V}$, $f=1\text{MHz}$	-	-	10	pF
Reverse recovery time	t_{rr}	$I_F=10\text{mA}$, $I_R=10\text{mA}$, to $I_R=1\text{mA}$	-	-	5	ns

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

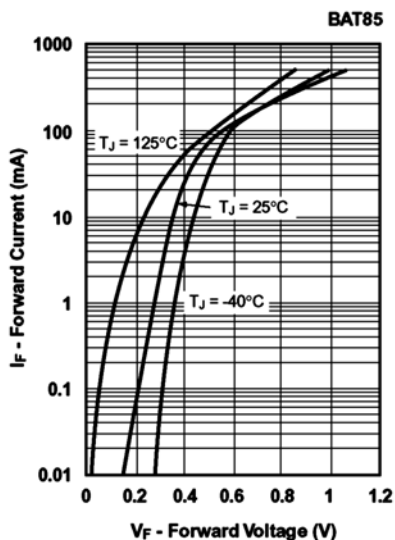
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RATINGS AND CHARACTERISTIC CURVES

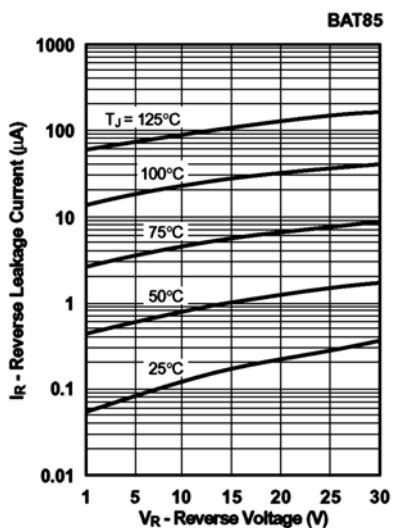
Admissible Power Dissipation vs. Ambient Temperature



Typical Instantaneous Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance

