

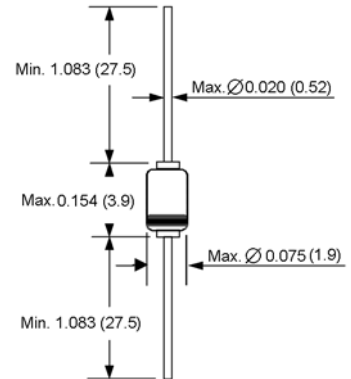
Features

- ◆ 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
- ◆ Metal-on-silicon Schottky barrier device which is protected by a PN junction guard ring. The low forward voltage drop and fast switching make it ideal for protection of MOS devices, steering, biasing and coupling diodes for fast switching and low logic level applications.
- ◆ This diode is also available in the MiniMELF case with type designation BAS86.

Mechanical Data

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

DO-204AH (DO-35 Glass)



Maximum Ratings and Thermal Characteristics

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

Parameter	Symbol	Value	Unit
Continuous reverse voltage	V_R	50	Volts
Forward continuous current at $T_{amb}=25^\circ\text{C}$	I_F	200 ⁽¹⁾	mA
Repetitive peak forward current at $t_f < 1\text{s}$, $v < 0.5$, $T_{amb}=25^\circ\text{C}$	I_{FRM}	500 ⁽¹⁾	mA
Power dissipation at $T_{amb}=25^\circ\text{C}$	P_{tot}	200 ⁽¹⁾	mW
Thermal resistance junction to ambient air	$R_{\theta JA}$	300 ⁽¹⁾	$^\circ\text{C/W}$
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	$V_{(BR)R}$	$I_R=10\mu\text{A}$ (pulsed)	50	-	-	Volts
Leakage current	I_R	$V_R=40\text{V}$	-	0.3	5.0	μA
Forward voltage pulse test $t_f < 300\mu\text{s}$, $\delta < 2\%$	V_F	$I_F=0.1\text{mA}$ $I_F=1\text{mA}$ $I_F=10\text{mA}$ $I_F=30\text{mA}$ $I_F=100\text{mA}$	- - - - -	0.200 0.275 0.365 0.460 0.700	0.300 0.380 0.450 0.600 0.900	Volt
Capacitance	C_{tot}	$V_R=1\text{V}$, $f=1\text{MHz}$	-	-	8	pF
Reverse recovery time	t_r	$I_F=10\text{mA}$, $I_R=10\text{mA}$, 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.