

## Features

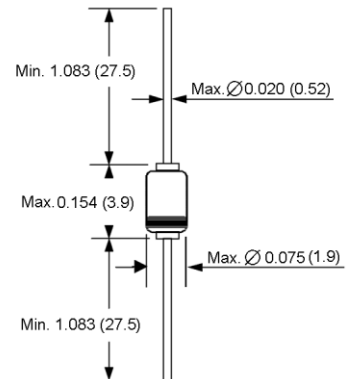
- ◆  $V_{BO}$ : 32V / 34V / 40V Versions
- ◆ Low Breakover Current



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

## Description

- ◆ High reliability glass passivation insuring parameter stability and protection against junction contamination.



**Dimensions in inches and (millimeters)**

## Absolute Ratings (limiting values)

Symbols	Parameters		Value	Units
P	Power dissipation on printed circuit (L = 10 mm)	$T_A = 65^\circ\text{C}$	150	mW
$I_{TRM}$	Repetitive peak on-state current	$t_p = 20\mu\text{s}$ $F = 100\text{ Hz}$	2.0	Amps
$T_J, T_{STG}$	Storage and operating junction temperature range		-40 to +125 -40 to +125	$^\circ\text{C}$ $^\circ\text{C}$

## Thermal Resistances

Symbols	Parameters	Value	Units
$R_{\theta(j-a)}$	Junction to ambient	400	$^\circ\text{C/W}$
$R_{\theta(j-l)}$	Junction-leads	150	$^\circ\text{C/W}$

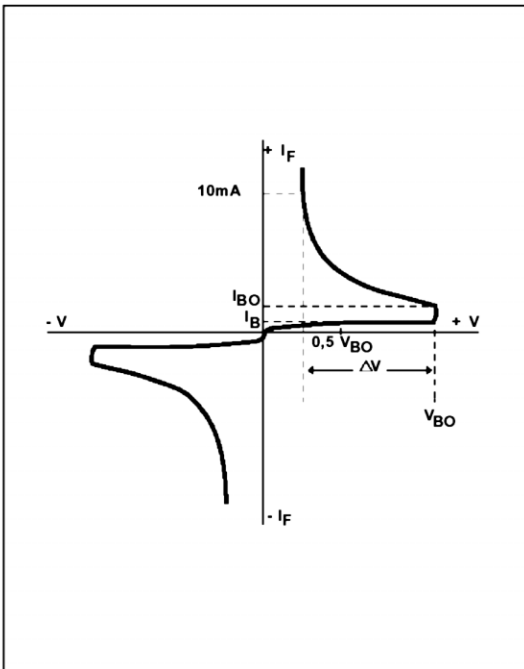
## Electrical Characteristics (T<sub>J</sub>=25°C)

Symbols	Parameters	Test Conditions		Value			Units
				DB3	DC34	DB4	
V <sub>BO</sub>	Breakover voltage *	C=22 nF ** see diagram 1	MIN.	28	30	35	Volts
			TYP.	32	34	40	
			MAX.	36	38	45	
[+V <sub>BO</sub> , -V <sub>BO</sub> ]	Breakover voltage symmetry	C=22 nF ** see diagram 1	MAX.	3			Volts
ΔV±	Dynamic breakover voltage *	ΔI = [I <sub>BO</sub> to I <sub>F</sub> =10mA] see diagram 1	MIN.	5			Volts
V <sub>O</sub>	Output voltage *	see diagram 2	MIN.	5			Volts
I <sub>BO</sub>	Breakover current *	C=22 nF **	MAX.	100	50	100	μA
t <sub>r</sub>	Rise time *	see diagram 3	TYP.	1.5			μs
I <sub>B</sub>	Leakage current *	V <sub>g</sub> =0.5V <sub>BO</sub> max see diagram 1	MAX.	10			μA

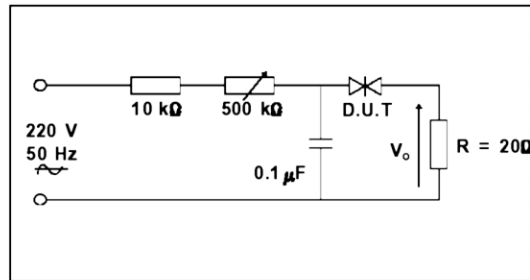
\* Electrical characteristic applicable in both forward and reverse directions.

\*\* Connected in parallel with the devices.

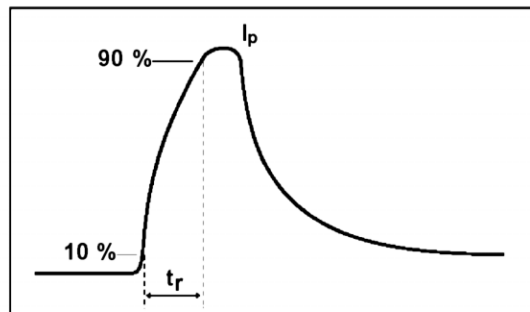
**DIAGRAM 1 : Current-voltage characteristics**



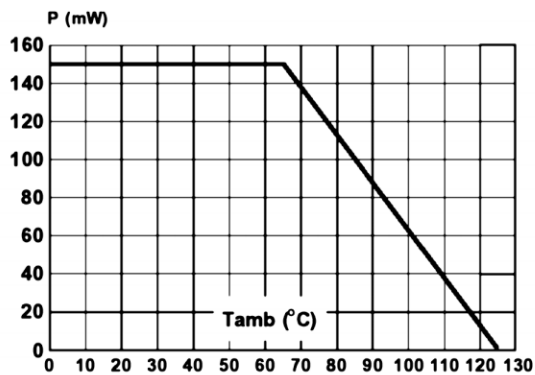
**DIAGRAM 2 : Test circuit for output voltage**



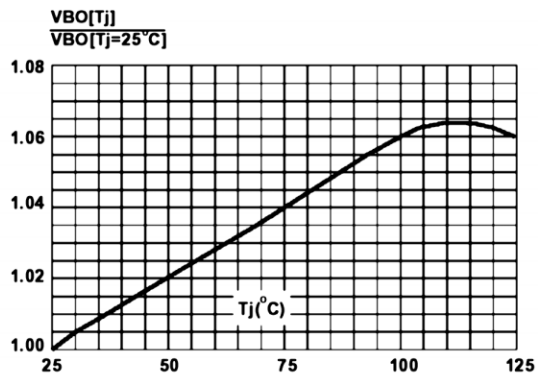
**DIAGRAM 3 : Test circuit see diagram 2.  
Adjust R for  $I_p=0.5A$**



**Fig.1 :** Power dissipation versus ambient temperature (maximum values)



**Fig.2 :** Relative variation of  $V_{BO}$  versus junction temperature (typical values)



**Fig.3 :** Peak pulse current versus pulse duration (maximum values)

