

Glass Case DO-34  
Dimensions in mm

The glass passivated, three-layer, two terminal, axial lead, hermetically sealed diacs are designed specifically for triggering thyristors. They demonstrate low breakover current at breakover voltage as they withstand peak pulse current. These diacs are intended for use in thyristor phase control, circuits for lamp-dimming, universal-motor speed controls, and heat controls.

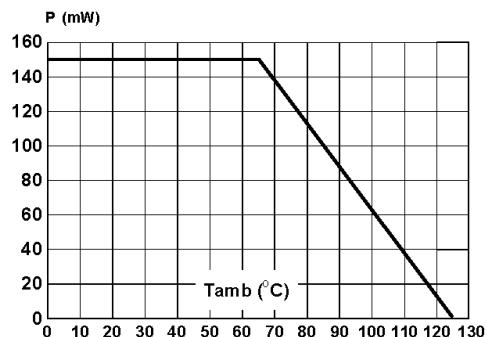
#### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Power Dissipation ( $T_a = 65^\circ\text{C}$ )	$P_{\text{tot}}$	150	mW
Repetitive Peak On-state Current ( $t_p = 20\ \mu\text{s}$ , $f = 100\ \text{Hz}$ )	$I_{\text{TRM}}$	2	A
Operating Junction and Storage Temperature Range	$T_j, T_{\text{stg}}$	- 40 to + 125	°C

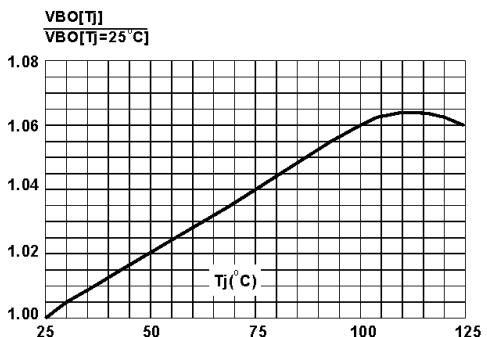
#### Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Breakover Voltage	DB3	28	36	V
	DC34	30	38	
	DB4	35	45	
Breakover Currents	$I_{(BR)1}$ and $I_{(BR)2}$	-	200	µA
Breakover Voltage Symmetry	$[V_{(BR)1}] - [V_{(BR)2}]$	-	3.8	V
Dynamic Breakover Voltage $\Delta I = [I_{BR} \text{ to } I_F = 10\ \text{mA}]$	$ \Delta V \pm $	5	-	V

**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)

