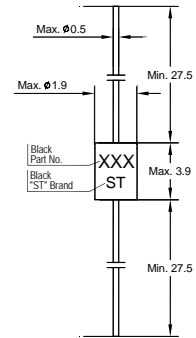


DB3, DB4, DC34

SILICON BIDIRECTIONAL DIACS

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.



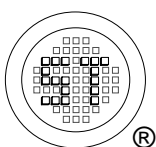
Glass Case DO-35
Dimensions in mm

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

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

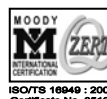
Characteristics at $T_a = 25\text{ }^\circ\text{C}$

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



SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949:2002 Certificate No. 05103 | ISO 14001:2004 Certificate No. 7116 | ISO 9001:2000 Certificate No. 050059 | BSI-ONSAS 18001:1999 Certificate No. 7116 | IECQ QC 080000 Certificate No. 7116

DB3, DB4, DC34

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

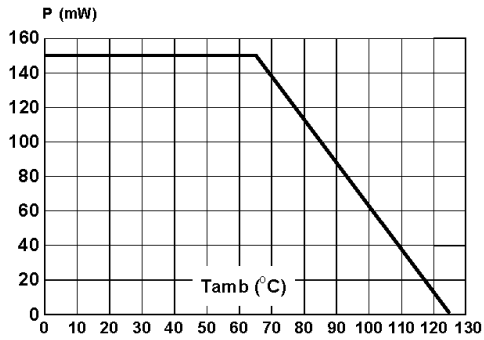


Fig.2 : Relative variation of V_{BO} versus junction temperature (typical values)

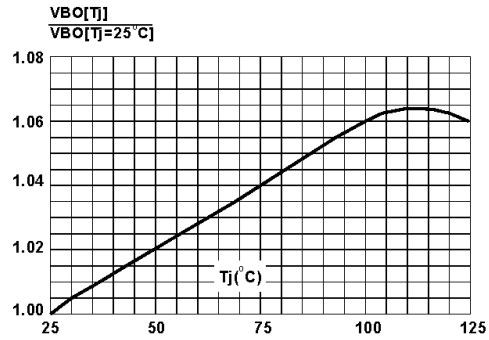
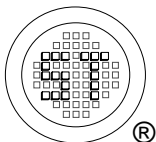
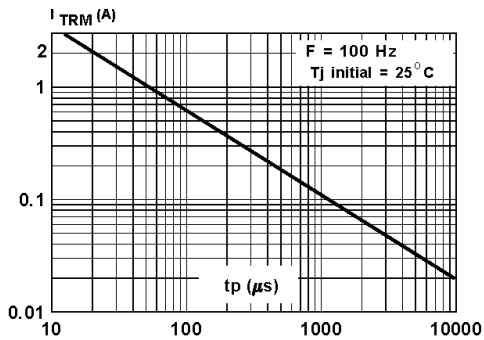


Fig.3 : Peak pulse current versus pulse duration (maximum values)



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