

DB3 Series

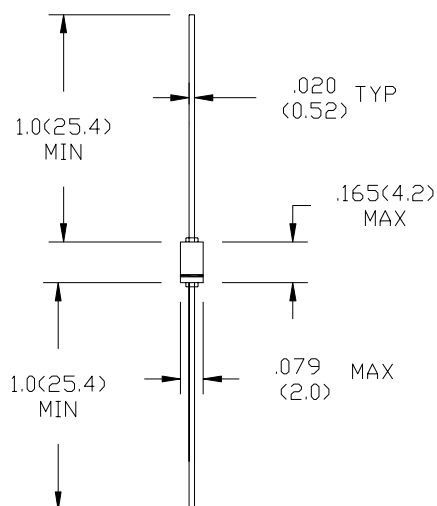
Applications

Gate-control circuits and power oscillator designs

Maximum Ratings and Electrical Characteristics

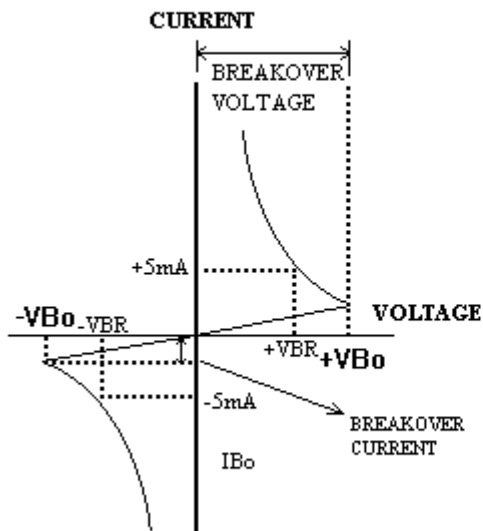
PARAMETERS	SYMBOL	DB3	DB4	UNITS
Breakover Voltage	$+V_{BO}, -V_{BO}$			VOLT
		28	35	Min
		32	40	Typ
		36	45	Max
Breakover Voltage Symmetry	$ (+V_{BO}) - (-V_{BO}) $	3	3	VOLT Max
Dynamic Breakback Voltage	$ V_{BO} - V_{BR} $	5	5	VOLT Min
Breakover Current	$+I_{BR}, -I_{BR}$	100	100	μ A Max
Peak Pulse Current for 10 μ S, 120pps, $T_A \leq 40^\circ\text{C}$	I_P	2.0	2.0	AMP Max
Cases: DO-35 Molded Glass				

Mechanical Dimensions: In Inches / mm

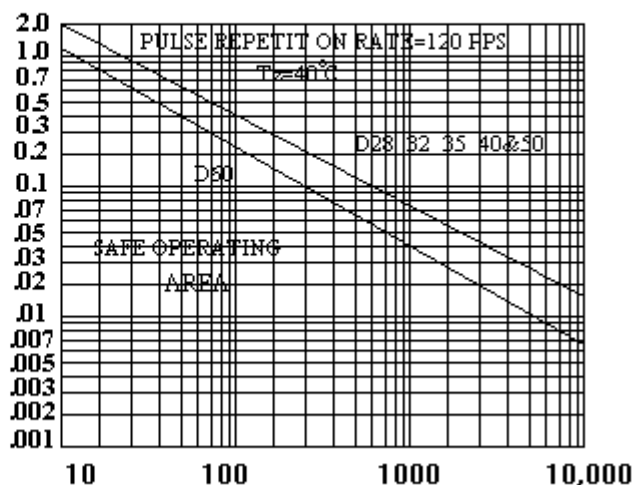


DO-35

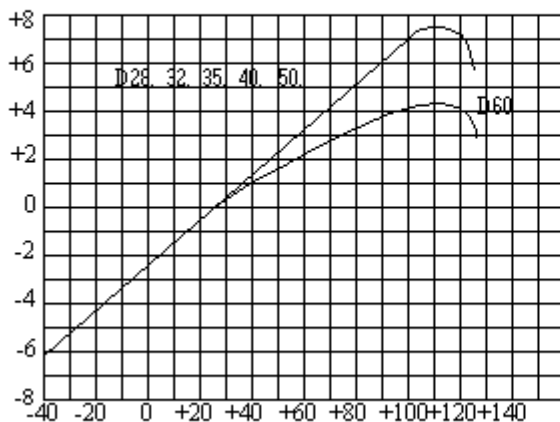
FIGURE 1--V-I CHARACTERISTICS



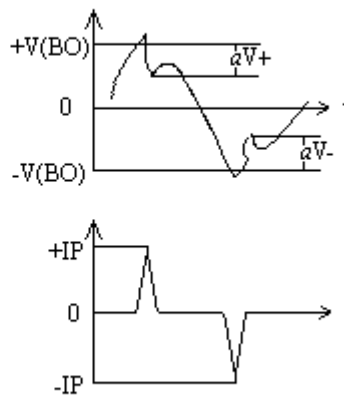
**FIGURE 2--REPETITIVE PEAK ON-STATE
CURRENT VS PULSE DURATION**



**FIGURE 3--NORMALIZED VBO CHANGE
VS JUNCTION TEMPERATURE**

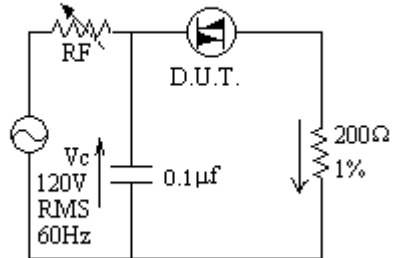


**FIGURE 4--TEST CIRCUIT WAVEFORMS
(SEE FIGURE 5)**



Technical Data
Data Sheet 1280, Rev. A

**FIGURE 5-CIRCUIT USED TO MEASURE
DIAC CHARACTERISTICS**



***ADJUST FOR ONE FIRINGIN HALF CYCLE**

TECHNICAL DATA

DISCLAIMER:

- 1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the Sensitron Semiconductor sales department for the latest version of the datasheet(s).
- 2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.
- 3- In no event shall Sensitron Semiconductor be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). Sensitron Semiconductor assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.
- 4- In no event shall Sensitron Semiconductor be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.
- 5- No license is granted by the datasheet(s) under any patents or other rights of any third party or Sensitron Semiconductor.
- 6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of Sensitron Semiconductor.
- 7- The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations.