

TECHNICAL DATA  
PART NUMBER: SCP-5758, Rev A

## HYPERABRUPT VARACTOR DIODE

DESCRIPTION: A 22-VOLT HYPERABRUPT VARACTOR DIODE IN A 2 LEAD CERAMIC J PACKAGE

For space level screening per MIL-STD-883, please add the letter "SS" to the end of the part number

### DIODES RATING AND CHARACTERISTICS

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Breakdown Voltage @ 10 Microamps	VB	22	-	-	Volts
<sup>1</sup> Reverse Voltage	VR	-	-	22.0	Volts
<sup>1</sup> Forward Current	IF	-	-	50	mA
<sup>2</sup> Reverse Current	Ir	-	-	100	nA
<sup>1</sup> Power Dissipation	PD	-	-	250	mW
<sup>3</sup> CT4	CT	19.63	-	24.05	pF
<sup>4</sup> CT2/CT20	TR	7.5	-	-	pF
Q (-4V) @ 50 MHz	-	-	100	175	Q
<sup>1</sup> Maximum and Storage Junction Temperature	T <sub>jmax</sub>	-55	-	150	°C
Operating Temperature	TOP	-55	-	125	°C

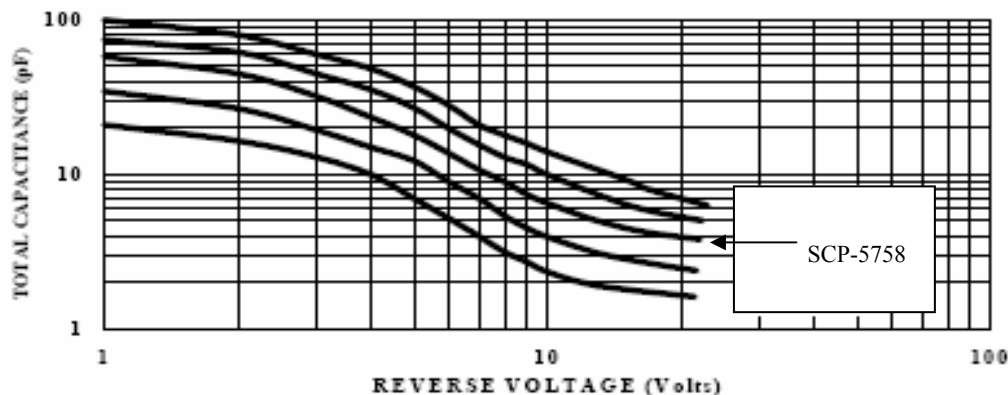
<sup>1</sup> Absolute Maximum rating @ 25°C

<sup>2</sup> Max. at 20 volts

<sup>3</sup> F=1 MHz – Vr = 4 volts (Total Capacitance)

<sup>4</sup> F=1 MHz Capacitance Ratio

### TOTAL CAPACITANCE (pF) vs REVERSE VOLTAGE

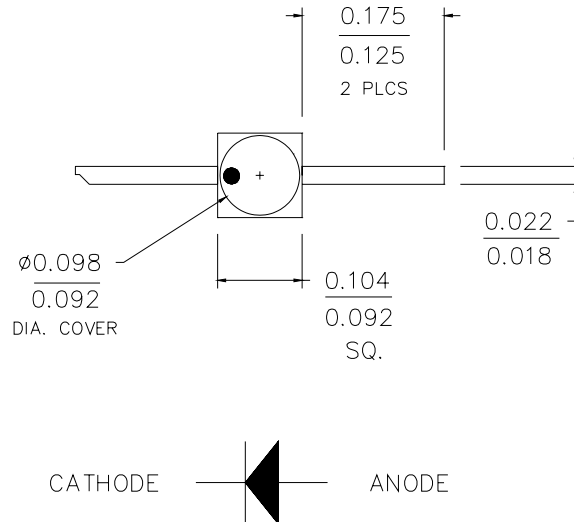


- 221 West Industry Court ■ Deer Park, NY 11729 ■ (631) 586 7600 FAX (631) 242 9798 •
- World Wide Web Site - <http://www.sensitron.com> • E-mail Address - [sales@sensitron.com](mailto:sales@sensitron.com) •

SENSITRON

TECHNICAL DATA

PART NUMBER: SCP-5758, Rev A

**Mechanical Dimensions: in inches****CASE OUTLINE AND PHYSICAL DIMENSIONS****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.