

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    |

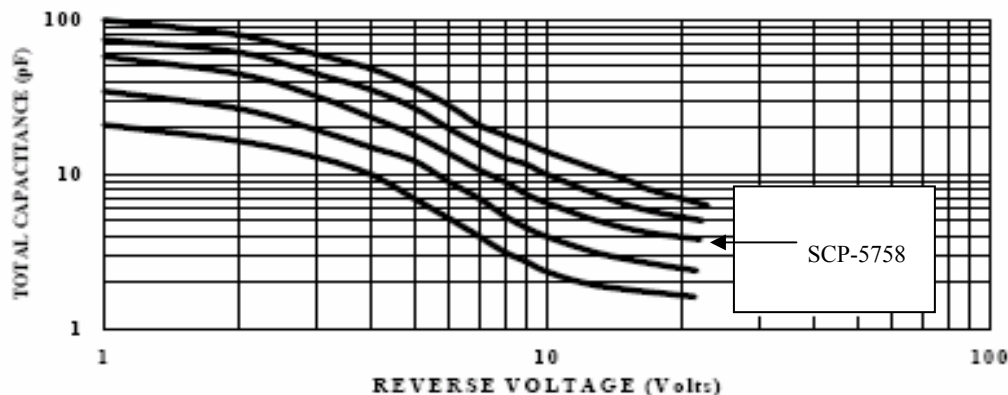
<sup>1</sup> Absolute Maximum rating @ 25°C

<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

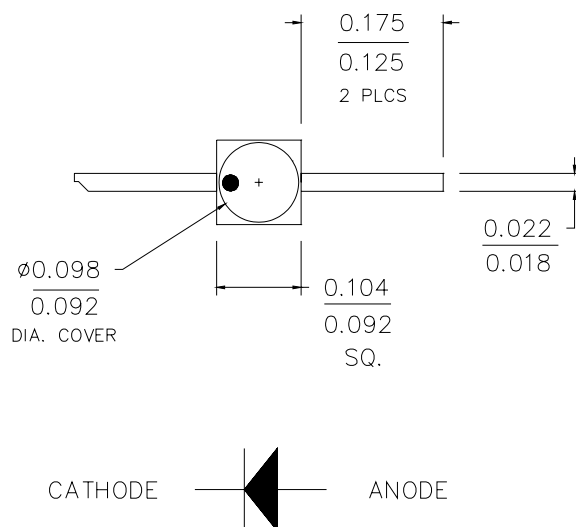
### TOTAL CAPACITANCE (pF) vs REVERSE VOLTAGE



SENSITRON

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**Mechanical Dimensions: in inches**

## CASE OUTLINE AND PHYSICAL DIMENSIONS

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