

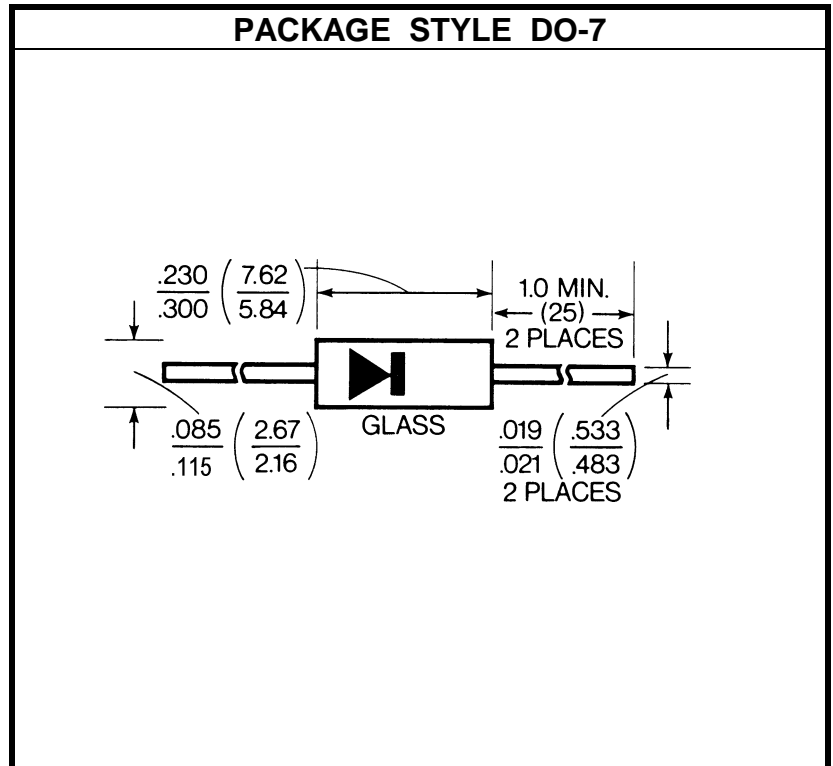
# ABRUPT VARACTOR DIODE

**DESCRIPTION:**

The **ASI 1N5709B** is an Abrupt Varactor Diode, designed for general purpose applications.

**MAXIMUM RATINGS**

<b>I<sub>R</sub></b>	20 nA
<b>V<sub>R</sub></b>	70 V
<b>P<sub>DISS</sub></b>	400 mW @ T <sub>A</sub> = 25 °C
<b>T<sub>J</sub></b>	-65 °C to +175 °C
<b>T<sub>STG</sub></b>	-65 °C to +200 °C
<b>θ<sub>JC</sub></b>	250 °C/W



**CHARACTERISTICS** T<sub>C</sub> = 25 °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
<b>V<sub>BR</sub></b>	I <sub>R</sub> = 10 μA	65			<b>V</b>
<b>I<sub>R</sub></b>	V <sub>R</sub> = 60 V			20	<b>nA</b>
	T <sub>A</sub> = 150 °C			20	<b>μA</b>
<b>C<sub>T</sub></b>	V <sub>R</sub> = 4.0 V	f = 1.0 MHz	77.9	86.1	<b>pF</b>
<b>C<sub>T4</sub>/C<sub>T60</sub></b>	V <sub>R</sub> = 4.0 V/V <sub>R</sub> = 60 V	f = 1.0 MHz	3.2	3.4	<b>--</b>
<b>Q</b>	V <sub>R</sub> = 4.0 V	f = 50 MHz	150		<b>--</b>