

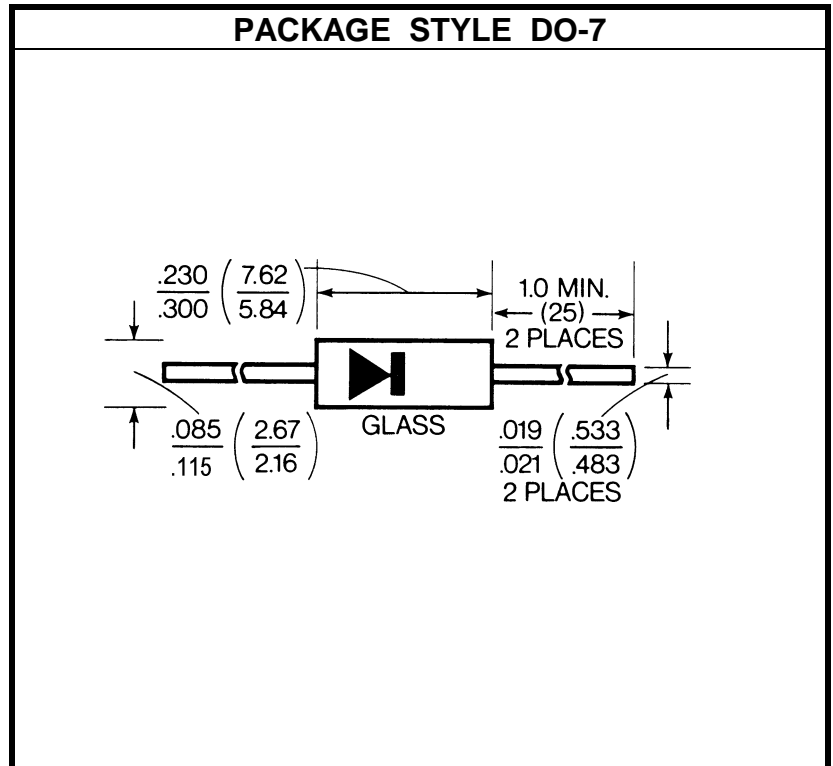
# ABRUPT VARACTOR DIODE

**DESCRIPTION:**

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

**MAXIMUM RATINGS**

$I_R$	20 nA
$V_R$	70 V
$P_{DISS}$	400 mW @ $T_A = 25\text{ }^\circ\text{C}$
$T_J$	-65 °C to +175 °C
$T_{STG}$	-65 °C to +200 °C
$\theta_{JC}$	250 °C/W


**CHARACTERISTICS**  $T_C = 25\text{ }^\circ\text{C}$ 

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$V_{BR}$	$I_R = 10\text{ }\mu\text{A}$	65			V
$I_R$	$V_R = 60\text{ V}$			20	nA
		$T_A = 150\text{ }^\circ\text{C}$		20	$\mu\text{A}$
$C_T$	$V_R = 4.0\text{ V}$	$f = 1.0\text{ MHz}$	77.9	86.1	pF
$C_{T4}/C_{T60}$	$V_R = 4.0\text{ V}/V_R = 60\text{ V}$	$f = 1.0\text{ MHz}$	3.2	3.4	--
$Q$	$V_R = 4.0\text{ V}$	$f = 50\text{ MHz}$	150		--