

# SILICON ABRUPT TUNING VARACTOR DIODE

**DESCRIPTION:**

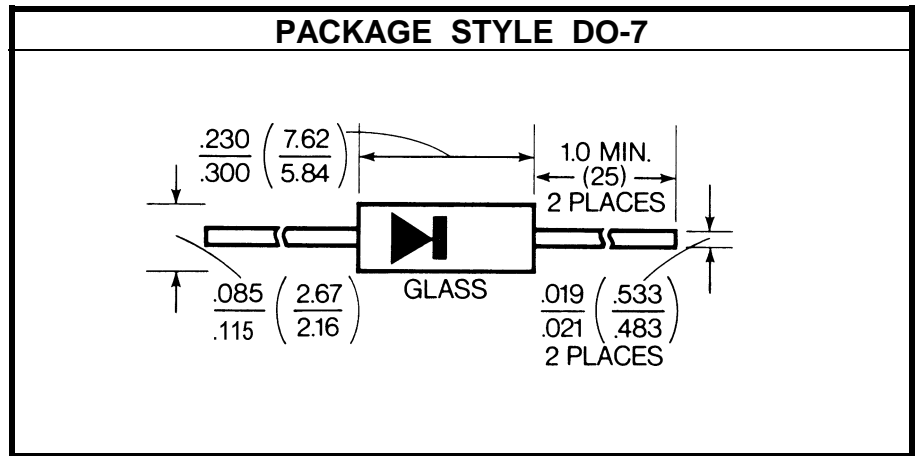
The **ASI MA45334** is a Silicon Abrupt Tuning Varactor, designed for applications through S-band.

**FEARTURES:**

- High Q
- Low Leakage
- Low Post Tuning Drift

**MAXIMUM RATINGS**

<b>V</b>	30 V
<b>P<sub>DISS</sub></b>	200 mW @ T <sub>C</sub> = 25 °C
<b>T<sub>J</sub></b>	-65 °C to +150 °C
<b>T<sub>STG</sub></b>	-65 °C to +150 °C


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

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
<b>V<sub>B</sub></b>	I <sub>R</sub> = 10 μA		30			<b>V</b>
<b>C<sub>T-4</sub></b>	V <sub>R</sub> = 4.0 V	f = 1.0 MHz	9.0	10	11	<b>pF</b>
<b>ΔC<sub>T</sub></b>	C <sub>T0</sub> /C <sub>T30</sub>	f = 1.0 MHz	4.6			
<b>Q</b>	V <sub>R</sub> = 4.0 V	f = 50 MHz		1300		
<b>T<sub>CC</sub></b>	V <sub>R</sub> = 4.0 V	f = 1.0 MHz		300		<b>PPM/°C</b>