

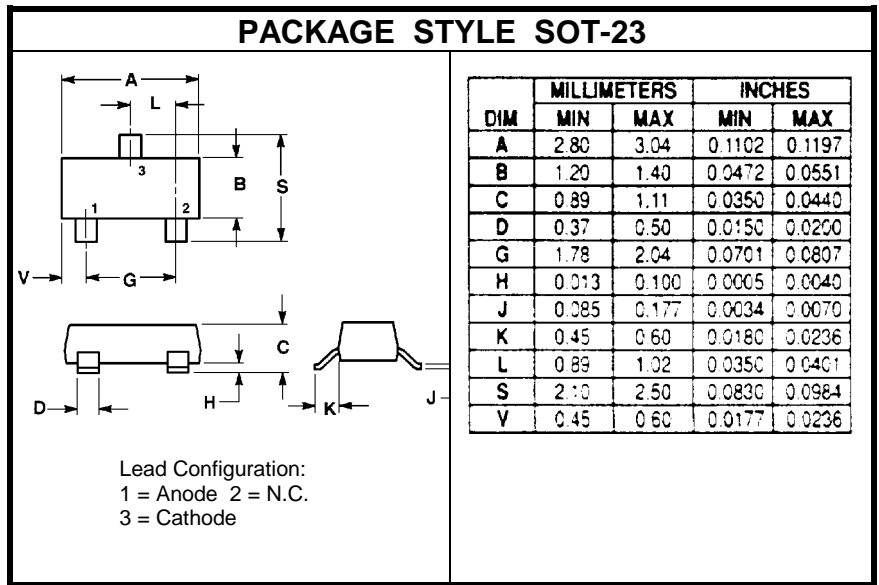
# SILICON VARACTOR DIODE

**DESCRIPTION:**

The **AT9001** is an Abrupt Junction Tuning Varactor Housed in a Surface Mount Package.

**MAXIMUM RATINGS**

<b>I<sub>C</sub></b>	50 mA
<b>V<sub>CE</sub></b>	85 V
<b>P<sub>DISS</sub></b>	250 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
<b>T<sub>SOLD</sub></b>	250 °C


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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
<b>V<sub>R</sub></b>	I <sub>R</sub> = 10 μ	85			<b>V</b>
<b>C<sub>T-4</sub></b>	V <sub>R</sub> = -4.0 V      f = 1.0 MHz	0.8	1.0	1.2	<b>pf</b>
<b>ΔC<sub>T</sub></b>	C <sub>T0</sub> / C <sub>T</sub> -85 V	5.4			<b>---</b>
<b>Q</b>	V <sub>R</sub> = -4.0 V      f = 50 MHz	1000			<b>---</b>
<b>f<sub>RANGE</sub></b>	SUGGESTED FREQUENCY RANGE	2.0		4.0	<b>GHz</b>