

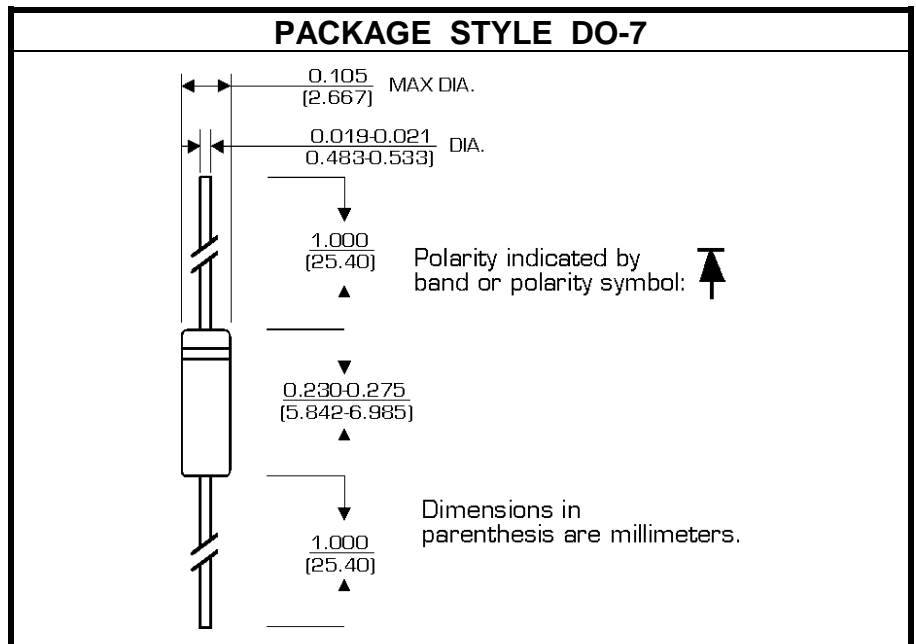
# SILICON HYPERABRUPT TUNING VARACTOR

**DESCRIPTION:**

The **ASI KV2101A** is a Silicon Hyperabrupt Tuning Varactor Diode Designed for UHF Applications up to 800 MHz. The Cathode is Indicated by a Color Band.

**MAXIMUM RATINGS**

<b>I<sub>F</sub></b>	40 mA
<b>V<sub>R</sub></b>	22 V
<b>P<sub>DISS</sub></b>	200 mW @ T <sub>A</sub> = 25 °C
<b>T<sub>J</sub></b>	-55 °C to +175 °C
<b>T<sub>STG</sub></b>	-55 °C to +175 °C


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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS	
<b>V<sub>R</sub></b>	I <sub>R</sub> = 10 μA	22			<b>V</b>	
<b>I<sub>R</sub></b>	V <sub>R</sub> = 20 V			100	<b>μA</b>	
<b>C<sub>T3</sub></b>	V <sub>R</sub> = 3.0 V	f = 1.0 MHz	10.9	11.5	12.1	<b>pF</b>
<b>C<sub>T8</sub></b>	V <sub>R</sub> = 8.0 V	f = 1.0 MHz	4.6	5.0	5.4	<b>pF</b>
<b>C<sub>T20</sub></b>	V <sub>R</sub> = 20 V	f = 1.0 MHz	2.0	2.15	2.3	<b>pF</b>
<b>ΔC<sub>T</sub></b>	V <sub>R</sub> = 3 to 20 V	f = 1.0 MHz	5.0	5.5	5.8	<b>RATIO</b>
<b>Q</b>	V <sub>R</sub> = 3.0V	f = 50 MHz	300			

[www.DataSheet.in](http://www.DataSheet.in)