

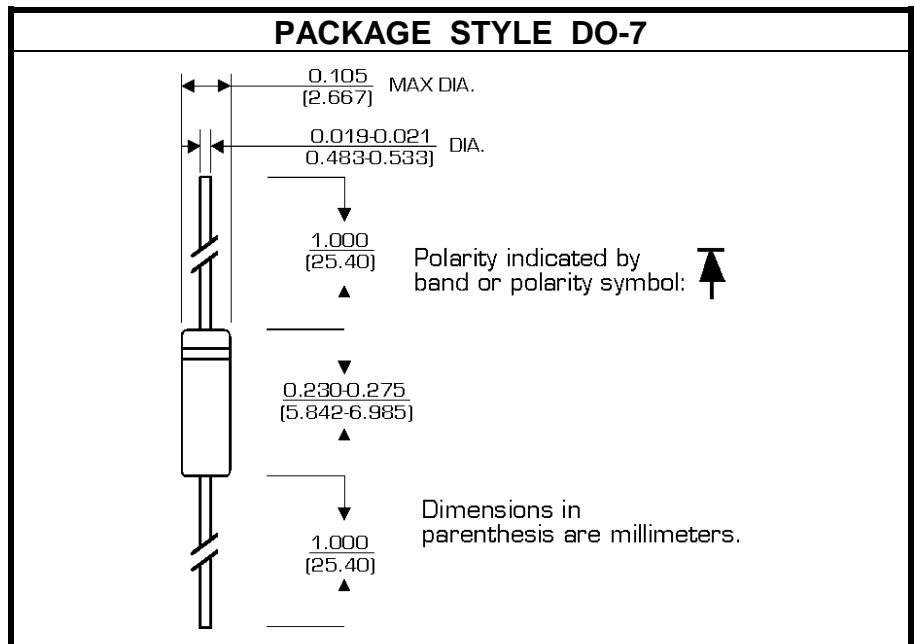
# SILICON HYPERABRUPT TUNING VARACTOR

**DESCRIPTION:**

The **ASI KV2801** 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			V	
<b>I<sub>R</sub></b>	V <sub>R</sub> = 20 V			100	μA	
<b>C<sub>T3</sub></b>	V <sub>R</sub> = 3.0 V	f = 1.0 MHz	25	28	31	pF
<b>C<sub>T8</sub></b>	V <sub>R</sub> = 8.0 V	f = 1.0 MHz	10	12	13.5	pF
<b>C<sub>T20</sub></b>	V <sub>R</sub> = 20 V	f = 1.0 MHz	4.5	4.8	5.1	pF
<b>ΔC<sub>T</sub></b>	V <sub>R</sub> = 3 to 20 V	f = 1.0 MHz	5.2	5.7	6.1	RATIO
<b>Q</b>	V <sub>R</sub> = 3.0V	f = 50 MHz	200	250		