

# SILICON HYPERABRUPT TUNING VARACTOR DIODE

**DESCRIPTION:**

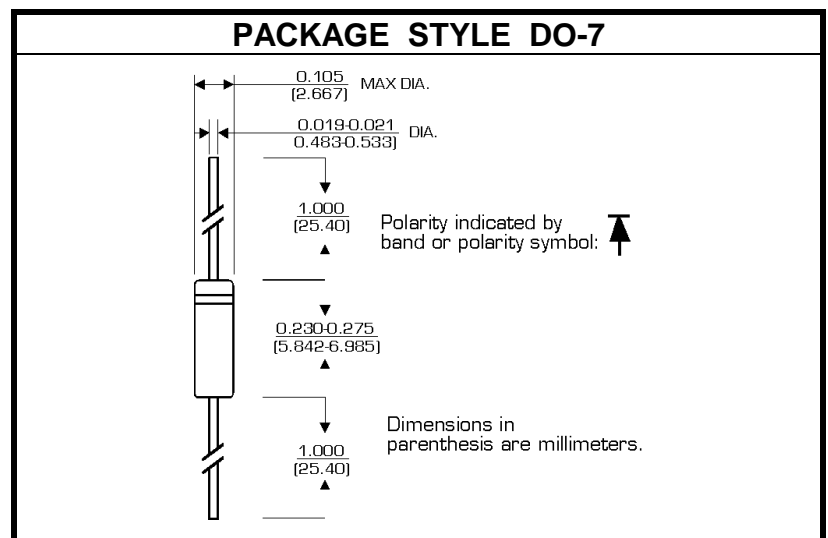
The **ASI DKV6522** is an Ion Implanted Silicon Hyperabrupt Tuning Varactor Designed for Octave Tuning up to 500 MHz.

**FEATURES INCLUDE:**

- $C_{T4}$  = 50 pF Nominal
- Hermetic Glass Package

**MAXIMUM RATINGS**

<b>I</b>	50 mA
<b>V</b>	8.0 V
<b>P<sub>DISS</sub></b>	250 mW @ $T_C = 25\text{ }^\circ\text{C}$
<b>T<sub>J</sub></b>	-55 °C to +125 °C
<b>T<sub>STG</sub></b>	-55 °C to +175 °C


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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
<b>V<sub>B</sub></b>	$I_R = 10\text{ }\mu\text{A}$	8.0			<b>V</b>
<b>I<sub>R</sub></b>	$V_R = 6.0\text{ V}$			250	<b>nA</b>
<b>C<sub>T</sub></b>	$V_R = 2.5\text{ V}$	6.2		7.2	<b>pF</b>
	$V_R = 4.0\text{ V}$	45		55	
<b>Q</b>	$V_R = 4.0\text{ V}$	100			
<b>T<sub>sold</sub></b>	$t = 5.0\text{ SEC.}$			+230	<b>°C</b>