

# TUNING VARACTOR

**DESCRIPTION:**

The **ASI MV1403** is a Silicon Hyper-Abrupt Junction Microwave Tuning Varactor Diode.

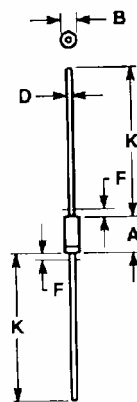
**FEATURES:**

- High Capacitance: 140 – 210pF
- High Q: 200 Min.

**MAXIMUM RATINGS**

<b>V</b>	12 V
<b>I</b>	250 mA
<b>P<sub>DISS</sub></b>	400 mW @ T <sub>A</sub> = 25 °C
<b>T<sub>J</sub></b>	-65 °C to +125 °C
<b>T<sub>STG</sub></b>	-65 °C to +200 °C

PACKAGE STYLE D0-204AA				
	Millimeters		Inches	
Dim:	Min	Max	Min	Max
A	5.84	7.62	0.230	0.300
B	2.16	2.72	0.085	0.107
D	0.46	0.56	0.018	0.022
F	---	1.27	---	0.050
K	25.40	38.10	1.000	1.500


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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS	
<b>V<sub>B</sub></b>	I <sub>R</sub> = 10 μA	12			<b>V</b>	
<b>I<sub>R</sub></b>	V <sub>R</sub> = 10 V			0.1	<b>μA</b>	
<b>C<sub>t-2</sub></b>	V <sub>R</sub> = 2.0 V	f = 1.0 MHz	140	175	210	<b>pF</b>
<b>Q</b>	V <sub>R</sub> = 2.0 V	f = 1.0 MHz	200			<b>---</b>
<b>L<sub>S</sub></b>		f = 250 MHz		5.0		<b>nH</b>
<b>C<sub>C</sub></b>		f = 1.0 MHz		0.25		<b>pF</b>
<b>T<sub>R</sub></b>	C <sub>t-2</sub> /C <sub>t-10</sub>	f = 1.0 MHz	10			<b>---</b>