

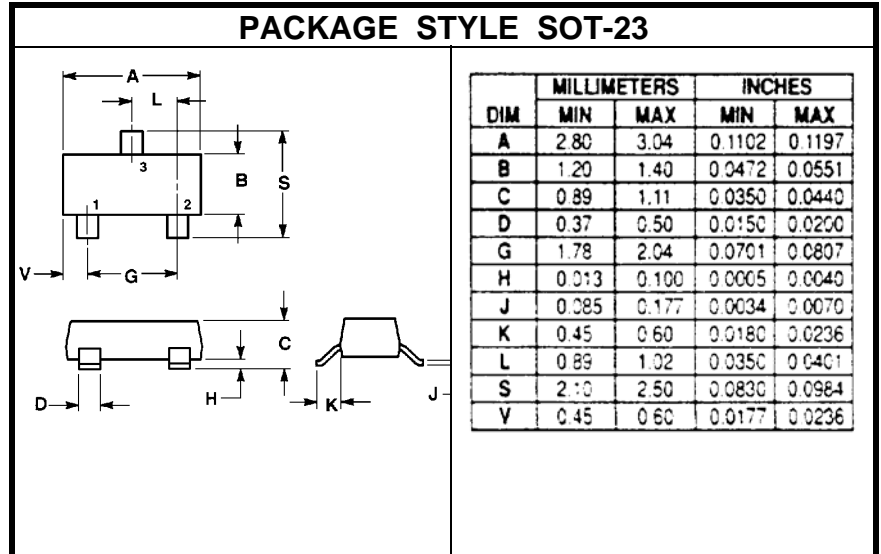
## SILICON HYPERABRUPT TUNING VARACTOR

### DESCRIPTION:

The **ASI AHV1000** Series is a Silicon Hyperabrupt Tuning Varactor in a **SOT-23** package.

### MAXIMUM RATINGS

<b>I<sub>R</sub></b>	100 nA @ V <sub>R</sub> = 20 V
<b>V</b>	22 V @ 10 μA
<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>SGT</sub></b>	-65 °C to +150 °C



### ELECTRICAL CHARACTERISTICS T<sub>C</sub> = 25 °C

Model Number	Total Capacitance C <sub>T4</sub> (±10%) (pF) f = MHz V <sub>R</sub> = 4.0 V	Minimum Capacitance Ratio C <sub>T2</sub> /C <sub>T20</sub> f = 1 MHz	Minimum Q f = 50 MHz V <sub>R</sub> = 4.0 V
AHV1001	5.6	5.3	300
AHV1002	6.8	5.5	300
AHV1003	8.2	6.0	250
AHV1004	10.0	6.0	250
AHV1005	12.0	6.5	250
AHV1006	15.0	7.0	250
AHV1007	18.0	7.0	175
AHV1008	22.0	7.5	175
AHV1009	27.0	8.0	175
AHV1010	33.0	9.0	150
AHV1011	39.0	9.5	150
AHV1012	47.0	9.5	150

1. AVAILABLE AS SINGLE OR COMMON CATHODE PAIRS.  
ADD SUFFIX "CC" TO MODEL NUMBER FOR COMMON CATHODE PAIRS.

#### Pin Configuration:

Single: Pin #1=Anode, Pin #2=N.C., Pin #3=Cathode  
Common Cathode: Pin #1=Anode, Pin #2=Anode, Pin #3= Cathode/Cathode