

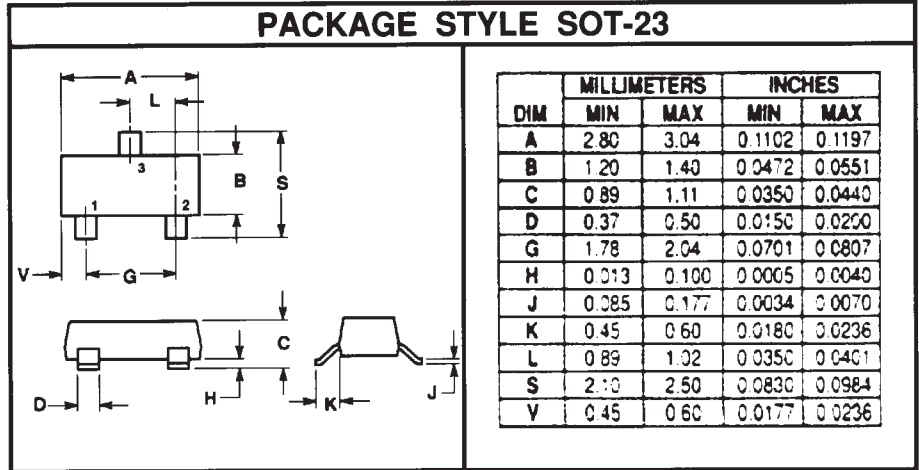
# SILICON ABRUPT TUNING VARACTOR

**DESCRIPTION:**

 SILICON ABRUPT TUNING VARACTOR  
 DIODES IN A SOT-23 PACKAGE

**Absolute Maximum Ratings**

<b>I<sub>R</sub></b>	100nA @ V <sub>R</sub> =24 VOLTS
<b>V</b>	30 VOLTS @ I <sub>R</sub> =10μA
<b>P.D.</b>	250 mW @ TC=25°C


**Electrical Characteristics**

Model Number	Total Capacitance CT-4 (±10%) (pF) f=1.0MHz VR=4.0V	Minimum Capacitance Ratio CT2/CT30 f=1.0MHz VR2.0V/VR30V	Minimum Q f=50MHz VR=4.0V
ATV1000	2.7	4.5	2000
ATV1001	3.3	4.5	2000
ATV1002	3.9	4.5	1900
ATV1003	4.7	4.5	1800
ATV1004	5.6	4.5	1700
ATV1005	6.8	4.5	1600
ATV1006	8.2	4.5	1500
ATV1007	10.0	4.5	1300
ATV1008	12.0	4.6	1200
ATV1009	15.0	4.6	1200
ATV1010	18.0	4.6	1100
ATV1011	22.0	4.6	1000
ATV1012	27.0	4.7	900
ATV1013	33.0	4.7	750
ATV1014	39.0	4.7	500
ATV1014	47.00	4.7	400

1. AVAILABLE AS SINGLE OR COMMON CATHODE PAIRS, EXCEPT UNITS 18 TO 47pF@C<sub>T4</sub> ARE AVAILABLE AS SINGLES ONLY. 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

**ADVANCED SEMICONDUCTOR, INC.**