

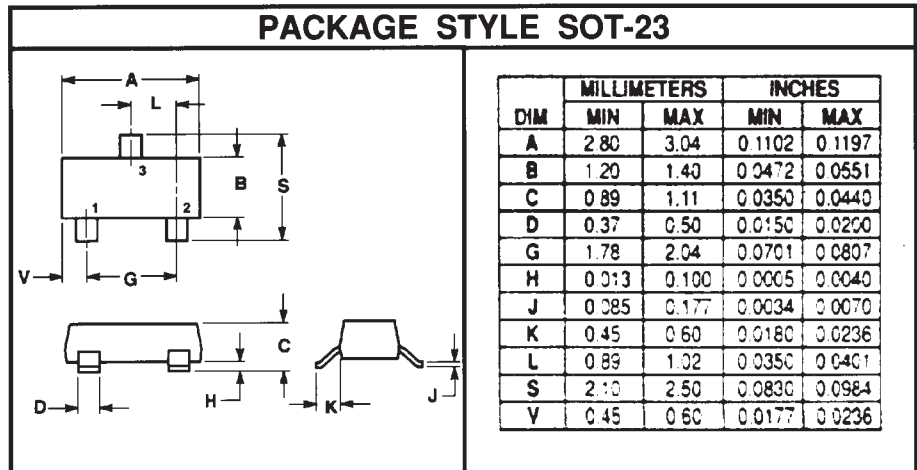
SILICON HYPERABRUPT TUNING VARACTOR

DESCRIPTION:

SILICON HYPERABRUPT TUNING VARACTOR DIODES IN A SOT-23 PACKAGE

Absolute Maximum Ratings

| | |
|-------------|------------------|
| IR | 100nA@VR=20V |
| V | 22V@IR=10μA |
| P.D. | 250 mW @ TC=25°C |


Electrical Characteristics

| Model Number | Total Capacitance CT4(±10%) (pF) f=1MHz VR=4.0 V | Minimum Capacitance Ratio CT2/CT20 f=1MHz VR2.0V/VR20V | Minimum Q f=50MHz VR=4.0V |
|--------------|---|---|------------------------------|
| 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

ADVANCED SEMICONDUCTOR, INC.