SILICON HYPERABRUPT TUNING VARACTOR

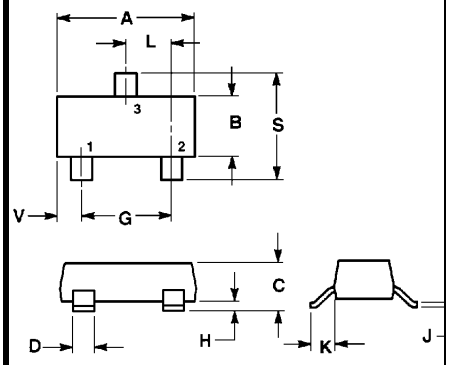
DESCRIPTION:

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

MAXIMUM RATINGS

I_R	100 nA @ V_R = 20 V
V	22 V @ 10 µA
P_{DISS}	250 mW @ T_C = 25 °C
T_J	-65 °C to +150 °C
T_{SGT}	-65 °C to +150 °C

PACKAGE STYLE SOT-23



DIM	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX
A	2.80	3.04	0.1102	0.1197
B	1.20	1.40	0.0472	0.0551
C	0.89	1.11	0.0350	0.0440
D	0.37	0.50	0.0150	0.0200
G	1.78	2.04	0.0701	0.0807
H	0.013	0.100	0.0005	0.0040
J	0.085	0.177	0.0034	0.0070
K	0.45	0.60	0.0180	0.0236
L	0.89	1.02	0.0350	0.0401
S	2.10	2.50	0.0830	0.0984
V	0.45	0.60	0.0177	0.0236

ELECTRICAL CHARACTERISTICS T_C = 25 °C

Model Number	Total Capacitance C_{T4} (±10%) (pF) f = MHz V_R = 4.0 V	Minimum Capacitance Ratio C_{T2}/C_{T20} f = 1 MHz	Minimum Q f = 50 MHz V_R = 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

Specifications are subject to change without notice.