

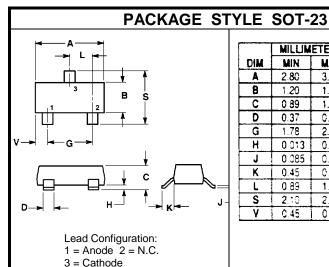
## SILICON HYPERABRUPT TUNING VARACTOR

## **DESCRIPTION:**

The **ASI AHV1001A** is a Silicon Hyperabrupt Tuning Varactor in a **SOT-23** package.

## **MAXIMUM RATINGS**

I <sub>R</sub>	100 nA @ V <sub>R</sub> = 20 V		
P <sub>DISS</sub>	250 mW @ $T_C = 25$ $^{\circ}C$		
$T_{J}$	-65 °C to +150 °C		
T <sub>SGT</sub>	-65 °C to +150 °C		



	MILLIM	ETERS	INCHES		
DIM	MIN	MAX	MIN	MAX	
A	2.80	3.04	0.1102	0.1197	
8	1.20	1.40	0.0472	0.0551	
С	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	
٧	0.45	0.60	0.0177	0.0236	

## CHARACTERISTICS To = 25 °C

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
C <sub>T</sub>	V <sub>R</sub> = 4.0 V	f = 1.0 MHz	4.3		5.3	pF
C <sub>T</sub>	V <sub>R</sub> = 20 V	f = 1.0 MHz	0.8		1.2	pF
T <sub>R</sub>	C <sub>T4V</sub> /C <sub>T20V</sub>		4.0			
Q	V <sub>R</sub> = 4.0 V	f = 50 MHz	400			
f	UPPER FREQUENCY LIMIT				2000	MHz