

SILICON HYPERABRUPT TUNING VARACTOR

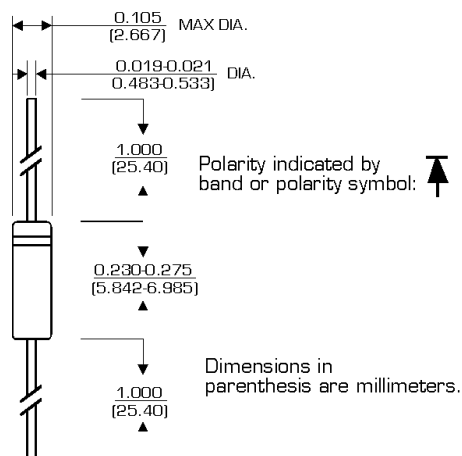
DESCRIPTION:

The **ASI AHV2000 Series** is an long Implanted Silicon Hyperabrupt Tuning Varactor Designed for Octave Tuning up to 500 MHz.

MAXIMUM RATINGS

V_R	22 V
I_F	40 mA
P_{DISS}	200 mW @ $T_C = 25^\circ\text{C}$
T_J	-55°C to $+125^\circ\text{C}$
T_{STG}	-55°C to $+175^\circ\text{C}$
T_{SOLD}	5Sec./230 $^\circ\text{C}$

PACKAGE STYLE DO-7



CHARACTERISTICS $T_C = 25^\circ\text{C}$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	Q
AHV2011	$I_R = 10 \mu\text{A}$	22			V
AHV2002	$V_R = 20 \text{ V}$			100	nA
AHV2003	$V_R = 4.0 \text{ V}$ $f = 1.0 \text{ MHz}$	47.5		52.5	pF
AHV2004	$V_R = 8.0 \text{ V}$ $f = 1.0 \text{ MHz}$	18.4		21.6	pF
AHV20	$V_R = 20 \text{ V}$ $f = 1.0 \text{ MHz}$	7.3		9.2	pF
ΔAHV	$C_{T4} \text{ V} / C_{T8.0} \text{ V}$ $f = 1.0 \text{ MHz}$	2.2		2.8	
ΔC_T	$C_{T-4} \text{ V} / C_{T-20} \text{ V}$ $f = 1.0 \text{ MHz}$	5.2		6.9	
Q	$V_R = 4.0 \text{ V}$ $f = 50 \text{ MHz}$	200			