

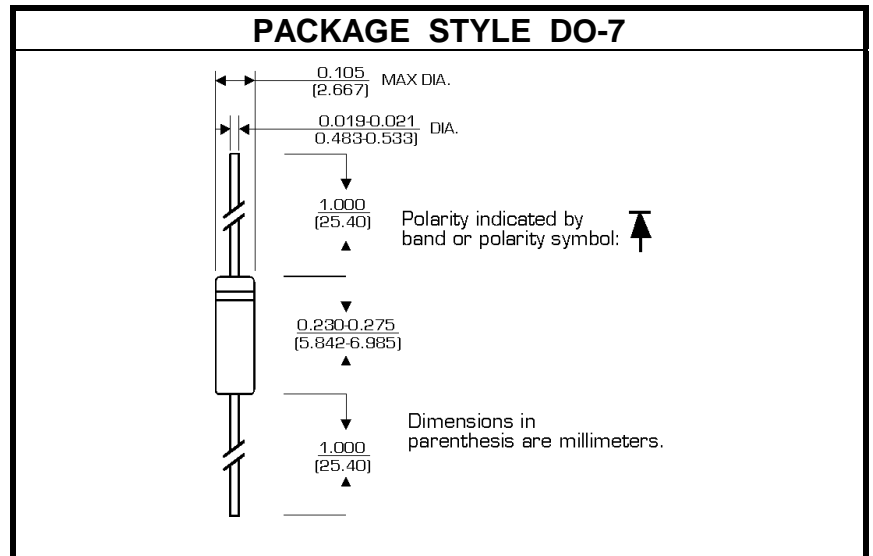
SILICON HYPERABRUPT TUNING VARACTOR

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 @ $T_C = 25^\circ C$
T_J	$-55^\circ C$ to $+125^\circ C$
T_{STG}	$-55^\circ C$ to $+175^\circ C$
T_{SOLD}	5Sec./ $230^\circ C$



CHARACTERISTICS $T_C = 25^\circ C$

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