

SILICON VARACTOR DIODE

DESCRIPTION:

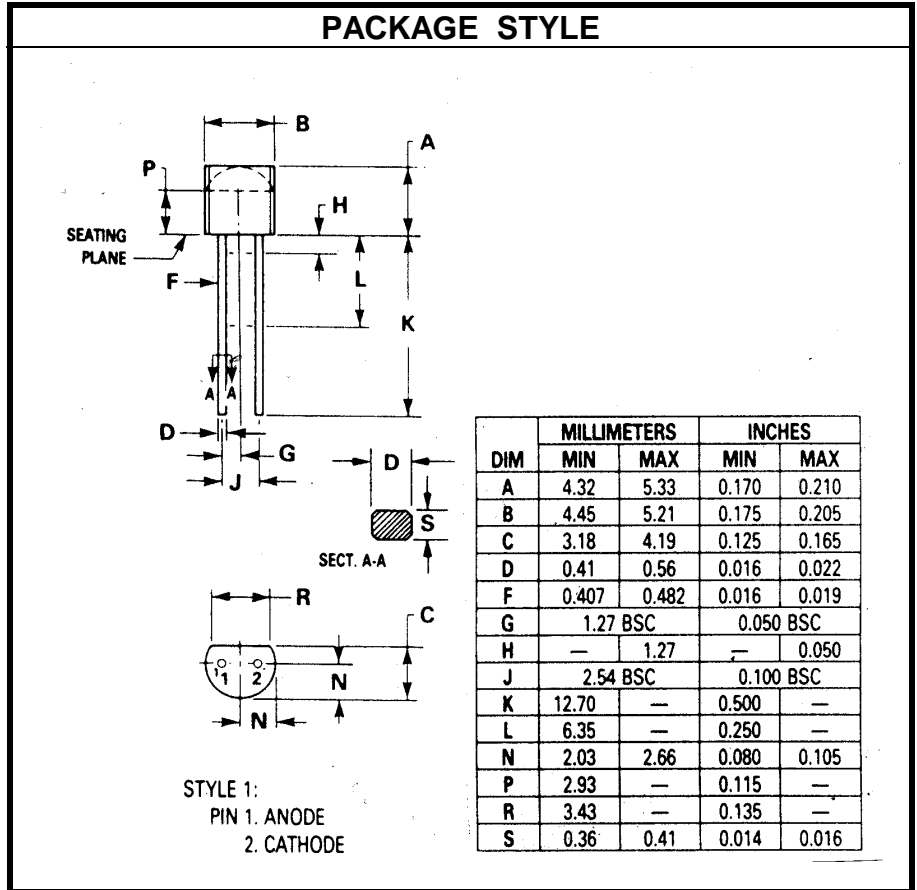
The ASI AHV8801-15 is a Silicon Tuning Varactor Diode.

FEATURES INCLUDE:

- 14:1 Minimum Tuning Range
- Q - 200 Minimum

MAXIMUM RATINGS

I_F	50 mA
V_R	12 V
P_{DISS}	280 mW @ $T_C = 25^\circ C$
T_J	$-55^\circ C$ to $+125^\circ C$
T_{STG}	$-55^\circ C$ to $+125^\circ C$



CHARACTERISTICS $T_A = 25^\circ C$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	$I_R = 10 \mu A$	12			V
I_R	$V_R = 10 V$			0.10	μA
C_t	$V_R = 1.25 V$ $f = 1.0 MHz$	420		550	pF
C_t	$V_R = 2.0 V$ $f = 1.0 MHz$		350		pF
C_t	$V_R = 7.0 V$ $f = 1.0 MHz$	30.5	35	37.5	pF
C_t	$V_R = 10 V$ $f = 1.0 MHz$		26.5		pF
C_{T2}/C_{T10}	$f = 1.0 MHz$	1	13		---
Q	$V_R = 1.0 V$ $f = 1.0 MHz$	70			---