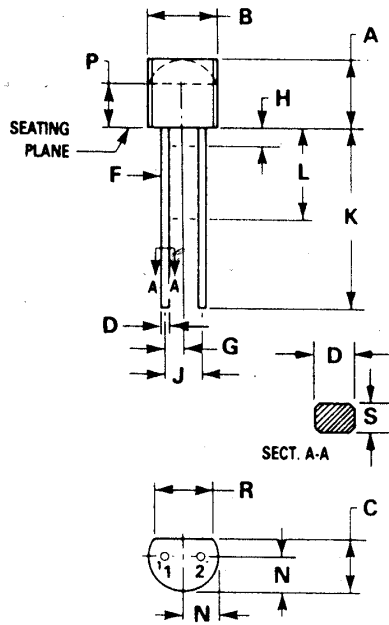


## SILICON VARACTOR DIODE

### PACKAGE STYLE



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	4.32	5.33	0.170	0.210
B	4.45	5.21	0.175	0.205
C	3.18	4.19	0.125	0.165
D	0.41	0.56	0.016	0.022
F	0.407	0.482	0.016	0.019
G	1.27 BSC		0.050 BSC	
H	—	1.27	—	0.050
J	2.54 BSC		0.100 BSC	
K	12.70	—	0.500	—
L	6.35	—	0.250	—
N	2.03	2.66	0.080	0.105
P	2.93	—	0.115	—
R	3.43	—	0.135	—
S	0.36	0.41	0.014	0.016

STYLE 1:  
PIN 1. ANODE  
2. CATHODE

### 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	$\mu A$
$C_t$	$V_R = 1.25 V$ $f = 1.0 MHz$	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			---