

SILICON VARACTOR DIODE

DESCRIPTION:

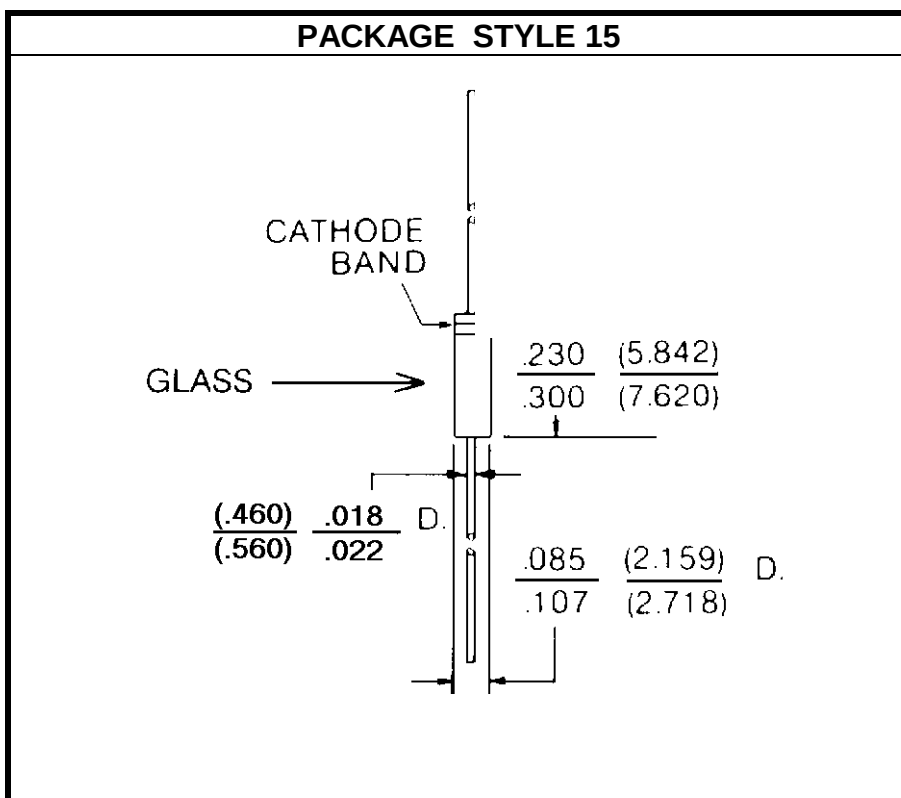
The **ASI AHV9501-15** is a Silicon Tuning Varactor Diode for HF to VHF operation.

FEATURES INCLUDE:

- Octave tuning from 4 to 20 V
- Ultra high **Q**
- Linnear frequency performance versus voltage

MAXIMUM RATINGS

I_F	50 mA
V_R	22 V
P_{DISS}	280 mW @ T _C = 25 °C
T_J	-55 °C to +125 °C
T_{STG}	-55 °C to +125 °C



CHARACTERISTICS T_A = 25 °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	I _R = 10 μA	22			V
I_R	V _R = 20 V			0.50	μA
C_t	V _R = 4.0 V f = 1.0 MHz	180	200	220	pF
C_t	V _R = 8.0 V f = 1.0 MHz	70	85	105	pF
C_t	V _R = 20 V f = 1.0 MHz	29	32	36	pF
C_{T4}/C_{T20}	f = 1.0 MHz	5.8	6.4	7.1	---
Q	V _R = 1.0 V f = 1.0 MHz	80			---