

SILICON VARACTOR DIODE

DESCRIPTION:

The **ASI MVAM115** is a Silicon Tuning Varactor Diode.

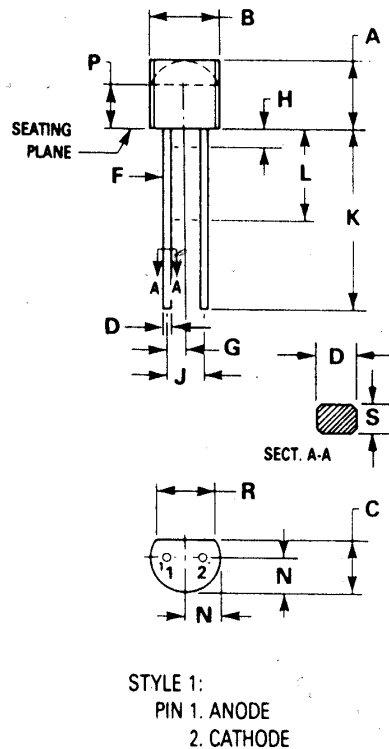
FEATURES INCLUDE:

- **15:1** Minimum Tuning Range
- **Q - 150** Minimum

MAXIMUM RATINGS

I_F	50 mA
V_R	18 V
P_{DISS}	280 mW @ $T_C = 25^\circ\text{C}$
T_J	-55°C to $+125^\circ\text{C}$
T_{STG}	-55°C to $+125^\circ\text{C}$

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

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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	$I_R = 10 \mu\text{A}$	18			V
I_R	$V_R = 15 \text{ V}$			0.10	μA
C_t	$V_R = 1.0 \text{ V}$ $f = 1.0 \text{ MHz}$	440		560	pF
C_{T1}/C_{T10}	$f = 1.0 \text{ MHz}$	15			---
Q	$V_R = 1.0 \text{ V}$ $f = 1.0 \text{ MHz}$	150			---