

## SILICON VARACTOR DIODE

### DESCRIPTION:

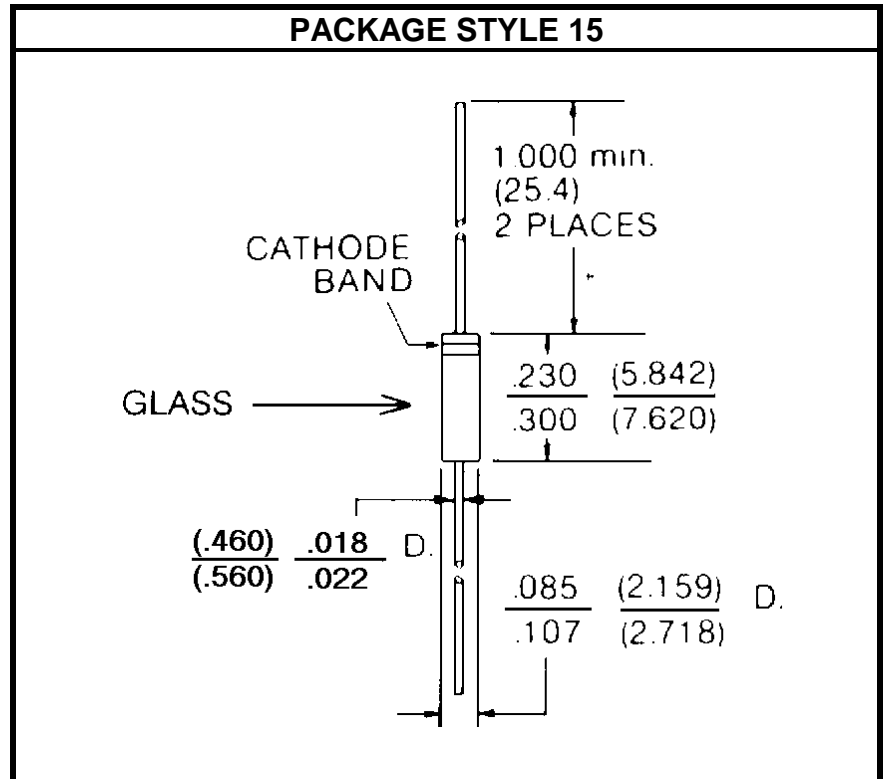
The **ASI KV1402** is a Hyperbrupt Tuning Varactor Diode designed for Applications from audio frequencies to 100 MHz

### FEATURES:

- Hermetically Sealed Package
- Medium Tuning Range

### MAXIMUM RATINGS

$I_F$	100 mA
$V_R$	12 V
$T_J$	-55 to +125 °C
$T_{STG}$	-65 to +200 °C



### CHARACTERISTICS $T_C = 25^\circ\text{C}$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$V_{BR}$	$I_R = 10 \mu\text{A}$	12			V
$I_R$	$V_R = 10 \text{ V}$			100	nA
$C_{T1.25}$	$V_R = 1.25 \text{ V}$ $f = 1.0 \text{ MHz}$		81.5		pF
$C_{T2}$	$V_R = 2.0 \text{ V}$ $f = 1.0 \text{ MHz}$	46		68	pF
$C_{T7}$	$V_R = 7.0 \text{ V}$ $f = 1.0 \text{ MHz}$		6.1		pF
$C_{T10}$	$V_R = 10 \text{ V}$ $f = 1.0 \text{ MHz}$	4.2		5.2	pF
$C_{T1.25}/C_{T7}$	$V_R = 1.25 \text{ V} / 7.0 \text{ V}$ $f = 1.0 \text{ MHz}$		13		pF
$C_{T2}/C_{T10}$	$V_R = 2 \text{ V} / 10 \text{ V}$ $f = 1.0 \text{ MHz}$	10		17	pF
$Q$	$V_R = 2.0 \text{ V}$ $f = 1.0 \text{ MHz}$	200	700		---