

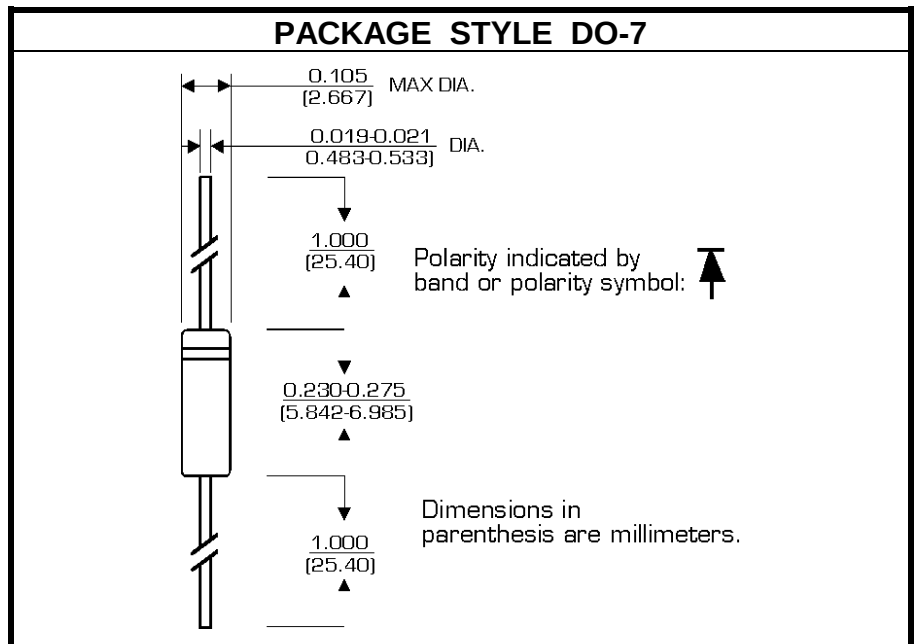
SILICON HYPERABRUPT TUNING VARACTOR

DESCRIPTION:

The **ASI KV2202** is a Silicon Hyperabrupt Tuning Varactor Diode Designed for UHF Applications up to 500 MHz. The Cathode is Indicated by a Color Band.

MAXIMUM RATINGS

I_F	40 mA
V_R	15 V
P_{DISS}	200 mW @ $T_A = 25\text{ }^{\circ}\text{C}$
T_J	$-55\text{ }^{\circ}\text{C}$ to $+175\text{ }^{\circ}\text{C}$
T_{STG}	$-55\text{ }^{\circ}\text{C}$ to $+175\text{ }^{\circ}\text{C}$



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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
V_R	$I_R = 10\text{ }\mu\text{A}$	15	18		V
I_R	$V_R = 10\text{ V}$			100	nA
C_{T4}	$V_R = 4.0\text{ V}$ $f = 1.0\text{ MHz}$	45	50	56	pF
C_{T8}	$V_R = 8.0\text{ V}$ $f = 1.0\text{ MHz}$	18	20	25	pF
ΔC_T	$V_R = 4.0\text{ to }8.0\text{ V}$ $f = 1.0\text{ MHz}$	1.8	2.5	2.8	RATIO
Q	$V_R = 4.0\text{ V}$ $f = 50\text{ MHz}$	125	165		