

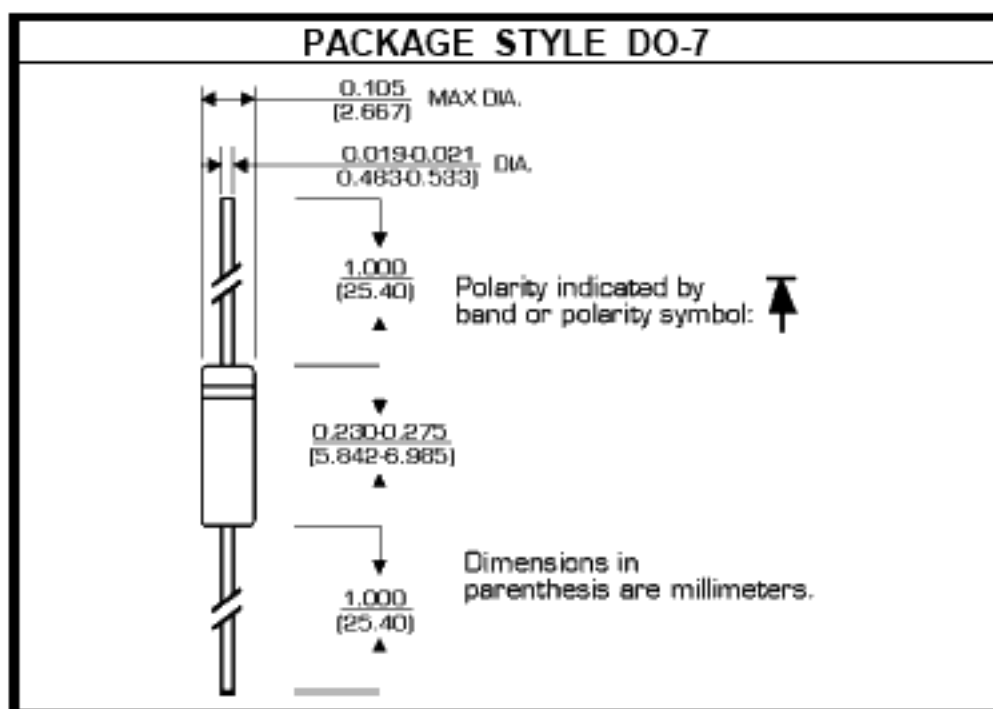
SILICON HYPERABRUPT TUNING VARACTOR

DESCRIPTION:

The **ASI KV2101** is a Silicon Hyperabrupt Tuning Varactor Diode Designed for UHF Applications up to 800 MHz. The Cathode is Indicated by a Color Band.

MAXIMUM RATINGS

I_F	40 mA
V_R	22 V
P_{DISS}	200 mW @ $T_A = 25^\circ\text{C}$
T_J	-55°C to $+175^\circ\text{C}$
T_{STG}	-55°C to $+175^\circ\text{C}$



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

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
V_R	$I_R = 10\ \mu\text{A}$		22			V
I_R	$V_R = 20\ \text{V}$				100	μA
C_{T3}	$V_R = 3.0\ \text{V}$	$f = 1.0\ \text{MHz}$	10.5	11.5	12.5	pF
C_{T8}	$V_R = 8.0\ \text{V}$	$f = 1.0\ \text{MHz}$	4.3	5.0	5.7	pF
C_{T20}	$V_R = 20\ \text{V}$	$f = 1.0\ \text{MHz}$	2.0	2.15	2.3	pF
ΔC_T	$V_R = 3\ \text{to}\ 20\ \text{V}$	$f = 1.0\ \text{MHz}$	5.0	5.5	5.8	RATIO
Q	$V_R = 3.0\ \text{V}$	$f = 50\ \text{MHz}$	300			