

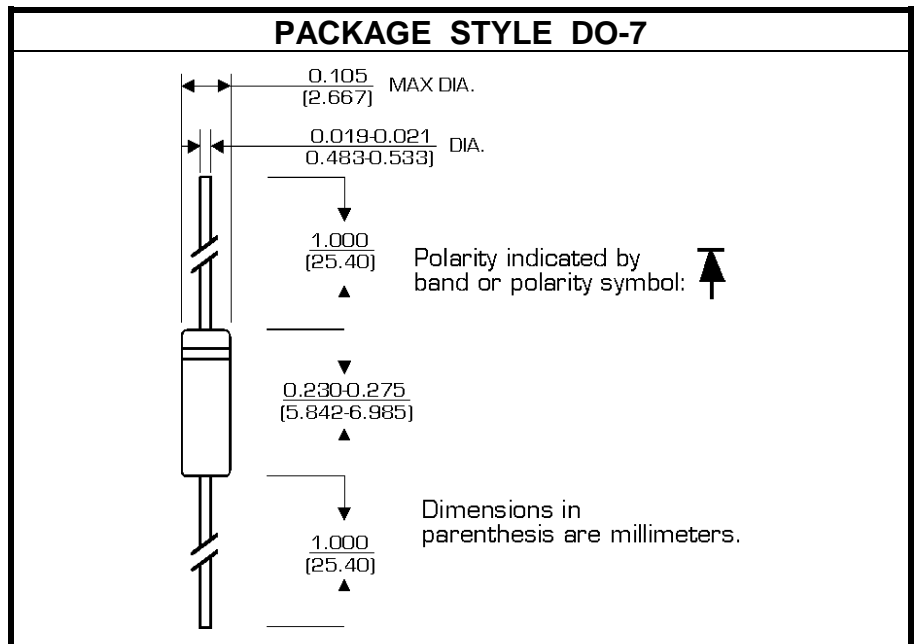
SILICON HYPERABRUPT TUNING VARACTOR

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 °C
T_J	-55 °C to +175 °C
T_{STG}	-55 °C to +175 °C


CHARACTERISTICS T_A = 25 °C

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

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