

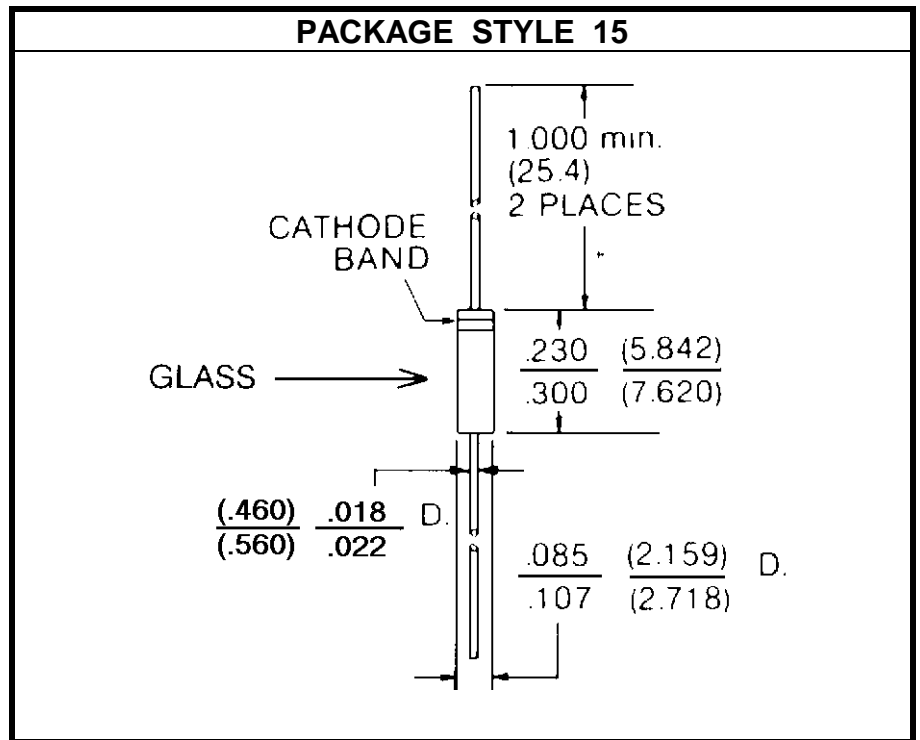
SILICON ABRUPT JUNCTION TUNING VARACTOR

DESCRIPTION:

The **AT6020** is an Epitaxial Silicon Abrupt Junction Microwave Tuning Varactor. This Device is Passivated With Silicon Dioxide Which Results in Very Low Leakage Current. The Capacitance Voltage Relationship Closely Approximates Square Law ($n = 0.5$).

MAXIMUM RATINGS

I_C	100 mA
V_{CE}	70 V
P_{DISS}	250 mW @ T _C = 25 °C
T_J	-65 °C to +150 °C
T_{STG}	-65 °C to +150 °C


CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
V_B	I _R = 10 μA	70			V
C_T	V _R = 4.0 V f = 1.0 MHz	35.1	39.0	42.9	pF
ΔC_T	C _T = 0 V / C _T = 60 V f = 1.0 MHz	7.4			RATIO
Q	V _R = 4.0 V f = 50 MHz	800			
T_C	V _R = 4.0 V			300	Ppm/ °C