

SILICON ABRUPT JUNCTION VARACTOR

DESCRIPTION:

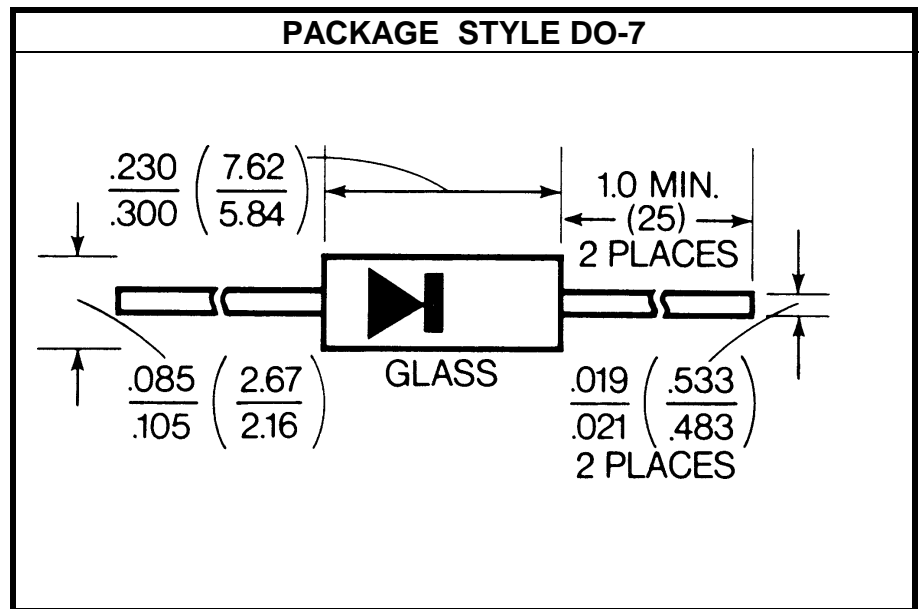
The **AT6022B-15** is a Silicon Abrupt Junction Varactor Designed for Octave Tuning of VHF Filters and Oscillators.

FEATURES INCLUDE:

- Silicon Dioxide Passivation
- $\gamma = 0.5$
- Hermetic **DO-7** Package

MAXIMUM RATINGS

I_F	100 mA
V_R	70 V
P_{DISS}	250 mW @ $T_C = 25^\circ\text{C}$
T_J	-65°C to $+150^\circ\text{C}$
T_{STG}	-65°C to $+150^\circ\text{C}$
θ_{JC}	500°C/W



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

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	$I_R = 10 \mu\text{A}$		70			V
I_R	$V_R = 48 \text{ V}$				50	nA
C_{T4}	$V_R = 4.0 \text{ V}$	$f = 1.0 \text{ MHz}$	53.2		58.8	pF
C_{T30}	$V_R = 30 \text{ V}$	$f = 1.0 \text{ MHz}$	22.0		26.25	pF
ΔC_T	C_{T0} / C_{T60}	$f = 1.0 \text{ MHz}$	7.4			---
ΔC_T	C_{T8} / C_{T60}	$f = 1.0 \text{ MHz}$	2.50		2.60	---
T_C	$V_R = 4.0 \text{ V}$	$f = 1.0 \text{ MHz}$			300	ppm
Q	$V_R = 4.0 \text{ V}$	$f = 50 \text{ MHz}$	600			---