



# SILICON ABRUPT JUNCTION VARACTOR

### **DESCRIPTION:**

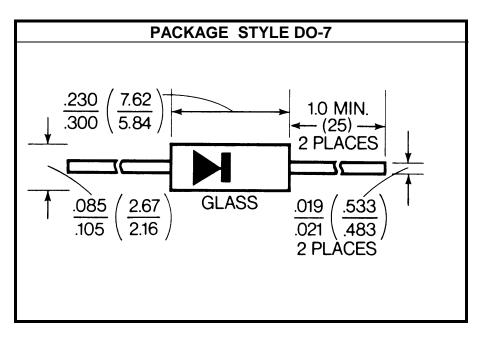
The **AT6022B-15** is a Silicon Abrupt Junction Varactor Designed for Octave Tuning of VHF Filters and Oscillators.

#### FEATURES INCLUDE:

- Silicon Dioxide Passivation
- **γ** = 0.5
- Hermetic DO-7 Package

#### MAXIMUM RATINGS

I <sub>F</sub>	100 mA					
$V_{R}$	70 V					
$\mathbf{P}_{\text{DISS}}$	250 mW @ $T_c = 25 {}^{\circ}C$					
TJ	-65 <sup>o</sup> C to +150 <sup>o</sup> C					
T <sub>STG</sub>	-65 $^{\circ}$ C to +150 $^{\circ}$ C					
θ <sub>JC</sub>	500 <sup>0</sup> C/W					



#### **CHARACTERISTICS** $T_c = 25 °C$

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
V <sub>BR</sub>	I <sub>R</sub> = 10 μA		70			V
I <sub>R</sub>	I <sub>R</sub> = 48 V				50	nA
	1011		50.0		50.0	
C <sub>T4</sub>	V <sub>R</sub> = 4.0 V	f = 1.0 MHz	53.2		58.8	pF
С <sub>тз0</sub>	V <sub>R</sub> = 30 V	f = 1.0 MHz	22.0		26.25	pF
		<i>.</i>		[		
ΔCΤ	$C_{T0} / C_{T60}$	f = 1.0 MHz	7.4			
ΔCτ	C <sub>T8</sub> / C <sub>T60</sub>	f = 1.0 MHz	2.50		2.60	
Тc	$V_{R} = 4.0 V$	f = 1.0 MHz			300	ppm
Q	V <sub>R</sub> = 4.0 V	f = 50 MHz	600			

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