

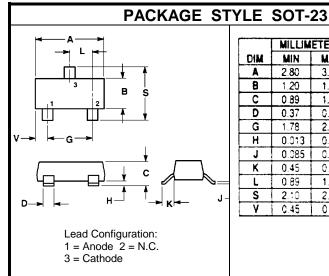
## **SILICON VARACTOR DIODE**

## **DESCRIPTION:**

The **AT9001** is an Abrupt Junction Tuning Varactor Housed in a Surface Mount Package.

## **MAXIMUM RATINGS**

Ic	50 mA				
$V_{CE}$	85 V				
P <sub>DISS</sub>	250 mW @ $T_C = 25$ $^{\circ}C$				
$T_J$	-65 °C to +150 °C				
T <sub>STG</sub>	-65 °C to +150 °C				
T <sub>SOLD</sub>	250 °C				



	MILLIM	ETERS	INCHES		
DIM	MIN	MAX	MiN	MAX	
A	2.80	3.04	0.1102	0.1197	
8	1.20	1.40	0.0472	0.0551	
С	0.89	1,11	0.0350	0.0440	
D	0.37	0.50	0.0150	0.0200	
G	1.78	2.04	0.0701	0.0807	
Н	0.013	0.100	0.0005	0.0040	
J	0.085	0.177	0.0034	0.0070	
K	0.45	0.60	0.0180	0.0236	
L	0.89	1.02	0.0350	0.0401	
S	2.10	2.50	0.0830	0.0984	
٧	0.45	0.60	0.0177	0.0236	

## **CHARACTERISTICS** T<sub>C</sub> = 25 °C

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
$V_{R}$	$I_R = 10 \mu$		85			V
C <sub>T-4</sub>	V <sub>R</sub> = -4.0 V	f = 1.0 MHz	0.8	1.0	1.2	pf
$\Delta C_T$	C <sub>T</sub> 0 / CT –85 V		5.4			
Q	V <sub>R</sub> = -4.0 V	f = 50 MHz	1000			
f <sub>RANGE</sub>	SUGGESTED FRENOUENCY RANGE		2.0		4.0	GHz