TUNING VARACTOR DIODE

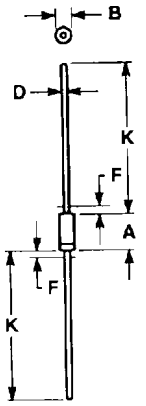
DESCRIPTION:

The **ASI 1N5148** is a Silicon Abrupt Junction Microwave Tuning Varactor Diode.

MAXIMUM RATINGS

I_F	250 mA
V_R	60 V
P_{DISS}	400 mW @ T_A = 25 °C
T_J	-65 °C to +175 °C
T_{STG}	-65 °C to +200 °C

PACKAGE STYLE D0-204AA



	Millimeters		Inches	
Dim:	Min	Max	Min	Max
A	5.84	7.62	0.230	0.300
B	2.16	2.72	0.085	0.107
D	0.46	0.56	0.018	0.022
F	---	1.27	---	0.050
K	25.40	38.10	1.000	1.500

CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	I_R = 10 µA		65			V
I_R	V_R = 55 V				20	nA
		T_A = 150 °C			20	µA
C_{T4}	V_R = 4.0 V	f = 1.0 MHz	42.3	47.0	51.7	pF
	V_R = 5.0 V		38.8		47.4	
α	V_R = 4.0 V	f = 1.0 MHz	0.38	0.41		---
Q	V_R = 4.0 V	f = 50 MHz	200			---
L_S		f = 250 MHz		5.0		µH
C_C		f = 1.0 MHz		0.25		pF
C_{T4}/C_{T60}	V_R = 4.0 & 60 V	f = 1.0 MHz		3.2		

NOTE: Voltage tolerance: ± 10%