



## TECHNICAL DATA

# 2-01C INSTRUMENT DIODE

The Eimac 2-01C is a small, closely-spaced, low-capacitance, high-vacuum diode designed for use through ultra-high frequencies. In measurement work, it is well suited to mounting in a probe and will maintain accuracy in the order of  $\pm 1$  decibel up to 700 megacycles. It is useful as an indicator at frequencies as high as 3000 megacycles.

The 2-01C has a maximum d-c current rating of 1.0 milliamper and a maximum peak inverse voltage rating of 1000 volts. Cooling is by convection and radiation.

### GENERAL CHARACTERISTICS

#### ► ELECTRICAL

Cathode—Oxide-Coated, Unipotential

	Min.	Nom.	Max.	
Heating Time - - - -	30	60		seconds
Heater Voltage - - - -		5.0		volts
Heater Current - - - -	0.31		0.39	amperes
Direct Interelectrode Capacitance - - - -			0.7	pF
Zero Signal Voltage (110 Megohm Load) 0.6			1.4	volts
Resonant Frequency - - - -		2800		MHz
Plate Resistance ( $E_b = 12$ volts) - - - -		8000	24,000	ohms

#### ► MAXIMUM RATINGS

PEAK INVERSE ANODE VOLTAGE - - - -	-	-	-	1000 MAX. VOLTS
D-C PLATE CURRENT - - - -	-	-	-	1.0 MAX. MA
PLATE DISSIPATION - - - -	-	-	-	0.1 MAX. WATT
SEAL TEMPERATURE - - - -	-	-	-	175°C MAX.

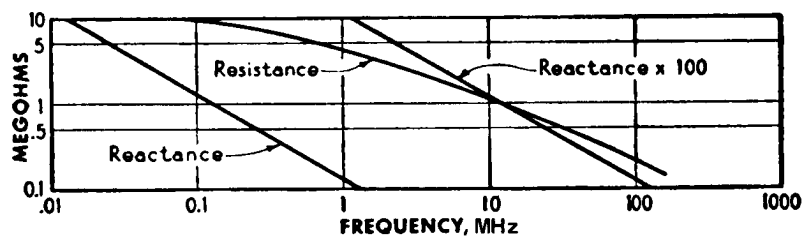
#### MECHANICAL

Length - - - -	1.813 inches	Net Weight - - - -	0.2 ounce
Diameter - - - -	0.563 inches	Shipping Weight (Approx.) - - - -	1.0 pound

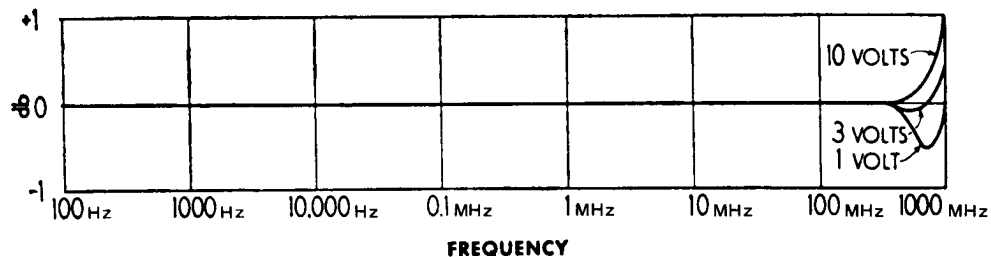


Actual Size

### INPUT CHARACTERISTICS



### RESPONSE



Input Impedance and Frequency Response of an Eimac 2-01C operating in a Hewlett-Packard Model 410B Vacuum Tube Voltmeter. Reproduced from Hewlett-Packard Catalog No. 21-A, 1952.

