NATIONAL UNION ELECTRON TUBE

NEW DATA

N.U. - 6184

NU-6184

from RTMA release #1067,
March 17, 1952

RELIABLE SUBMINIATURE UHF TWIN DIODE

APPLICATION:

The **NU-6184** is a T-3 subminiature twin diode designed for reliable applications such as encountered in military service where long life and stable performance is required. It is a high perveance tube suitable for rectifier, clipper, detector and pulse service. An internal shield results in very low capacitance between sections. The resonant frequency is approximately 1125 megacycles. It has an oxide coated unipotential cathode. The heater power consumption is less than 1/2 watt per section. The tube leads may either be soldered into a circuit or cut for socketing.

PHYSICAL SPECIFICATIONS

Style.....	Sub Miniature
Bulb.....	T-3
Base..... Submin.	Button 8-Pin
Mounting Position.....	Any

BASE PIN CONNECTIONS

Pin 1 - N.C.
Pin 2 - P_1
Pin 3 - H
Pin 4 - K_1
Pin 5 - K_2
Pin 6 - H
Pin 7 - P_2
Pin 8 - Shield
RMS Basing - 8 EH

RATINGS:

Heater Voltage (AC or DC) ±10%	6.3	volts
Maximum Heater Cathode Voltage	300	volts
Maximum Peak Inverse Voltage	450	volts
Maximum RMS Plate Voltage	200	volts
Maximum Peak Plate Current	50	ma
Maximum DC Output Current (F.W.)	20	ma
DC voltage drop at 8ma: per plate	5.0	volts
Maximum Impact Acceleration	500	G
Maximum Vibrational Acceleration for Extended Periods	2.5	G
Maximum Ambient Temperature	200	C
Maximum Altitude	60,000	ft.

INTERELECTRODE CAPACITANCES:

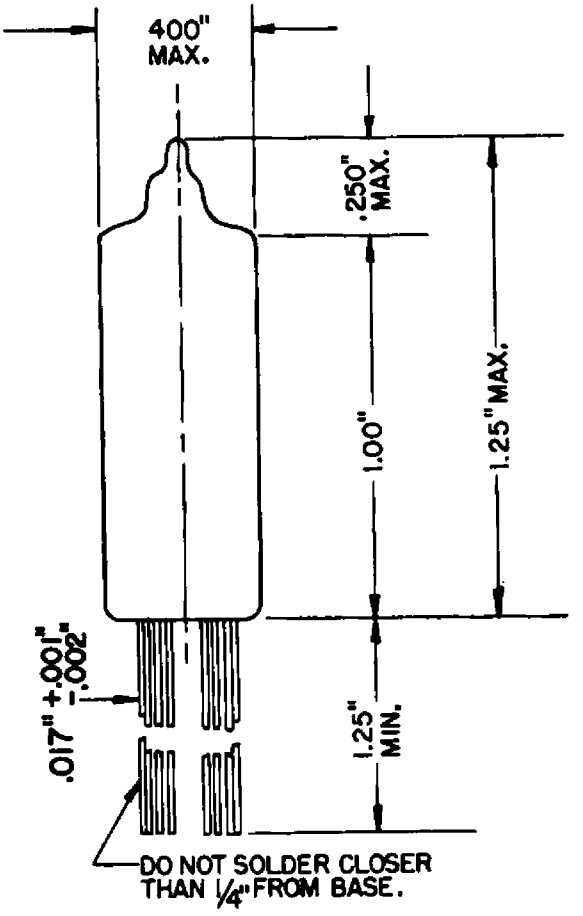
Plate to all other elements	2.5	μμf *
Cathode to all other elements	3.0	μμf *
Plate 1 to Plate 2 (with Ext. Shield)	0.01	μμf *
Plate 1 to Plate 2 (without Ext. Shield)	0.1	μμf

* With close fitting shield

TYPICAL OPERATION CONDITIONS:

Heater Voltage	6.3	6.3	volts
Heater Current	150	150	ma
RMS Plate Voltage	150	115	volts
Plate Current (Full Wave) θ	16	12	ma
DC Output Voltage θ	180	136	volts

θ R_L = 11,000 ohms, C_L = 8μf, L = 15 mh



NOTE; LEADS MAY BE CUT TO .200" FOR USE IN CINCH SOCKET 54A-13686

(Over)

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Research Division

ORANGE NATIONAL UNION RADIO CORPORATION NEW JERSEY

NATIONAL UNION RADIO CORPORATION

RESEARCH DIVISION

NU-6184