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.

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 (P.W.) 20 ma
DC voltage drop at 8 ma per plate 5.0 volts
Maximum Impact Acceleration 500 G
Maximum Vibration Acceleration 2.5 G for Extended Periods
Maximum Ambient Temperature 200 °C
Maximum Altitude 60,000 ft.

INTERELECTRODE CAPACITANCES:

Plate to all other elements 2.5 µuf *
Cathode to all other elements 3.0 µuf *
Plate 1 to Plate 2 (with Ext. Shield) 0.01 µuf *
Plate 1 to Plate 2 (without Ext. Shield) 0.1 µuf *
* 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 = 8 µuf, L = 15 mh

NOTE: LEADS MAY BE CUT TO 0.200" FOR USE IN CINCH SOCKET 54A-13686

(Over)

Research Division

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