

DESCRIPTION: ULTRA-HIGH FREQUENCY GENERAL PURPOSE TRIOD

FORMER DESIGNATION: SB846H

The planar triode 5767 was designed for use as a cw oscillator at frequencies up to 3300 mc. It is identical with Sylvania Type 2C37 except that both discs are folded, making it particularly adapted to applications in lumped-constant or butterfly circuits.

RATINGS AND CHARACTERISTICS

ELECTRICAL RATINGS

Heater voltage	6.3 volts
Heater current	0.4 amps
Maximum plate voltage	350 volts DC
Maximum plate dissipation	6 watts
Maximum seal temperature	175° C
Maximum operating frequency	3300 mc min.
Direct interelectrode capacity (average)	
Grid-plate	1.37 μ f
Grid-cathode	1.27 μ f
Plate-cathode	.025 max.

TUBE CHARACTERISTICS

Cathode bias resistor	400 ohms
Plate current	12 ma
Transconductance	4500 μ mhos
Amplification factor	25
Grid voltage for 10 microamperes DC	-28 V DC

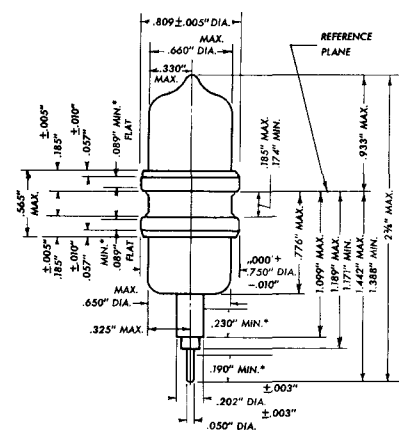
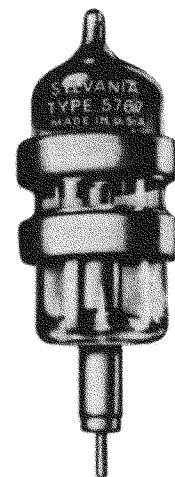
TYPICAL OPERATING CONDITIONS

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| <p>(1) UHF Oscillator CW</p> <p>Plate voltage . . . 150 V DC</p> <p>Plate current . . . 15 ma DC</p> <p>Grid resistor . . . 3000 ohms</p> <p>Frequency . . . 1000 mc</p> <p>Power output . . . 500 mw</p> | <p>(3) UHF Oscillator CW</p> <p>Plate voltage . . . 200 V DC</p> <p>Plate current . . . 25 ma DC</p> <p>Grid resistor . . . 100 ohms</p> <p>Cathode resistor* 100 ohms approx.</p> <p>Frequency . . . 3300 mc</p> <p>Power output . . . 450 mw min.</p> <p>* Adj. for rated plate current</p> |
| <p>(2) UHF Oscillator CW</p> <p>Plate voltage . . . 150 V DC</p> <p>Plate current . . . 25 ma DC</p> <p>Grid resistor . . . 100 ohms</p> <p>Cathode resistor* 100 ohms approx.</p> <p>Frequency . . . 3300 mc</p> <p>Power output . . . 200 mw min.</p> <p>* Adj. for rated plate current</p> | <p>(4) Pulse Operation</p> <p>Plate voltage (Peak)* 1500 volts</p> <p>Frequency . . . 3300 mc</p> <p>Power output (Peak) 175 watts</p> <p>Peak emission . . . 1500 ma min.</p> |

*Test Conditions:
Pulse width, 1 μ sec
Pulse rep. rate=2000 pps.

**Test Conditions:
Plate voltage (peak)=100 V
Pulse width=3 μ sec
Pulse rep. rate=500 pps.

MECHANICAL DATA



*CONTACT AREA