

engineering data service

electronic products

SYLVANIA

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 frequen	Сy								,	3300 mc min.
Direct interelectrode capacity (average)										
Grid-plate										1.37 μμ f
Grid-cathode										1.27 μμ f
Plate-cathode										.025 max.

TUBE CHARACTERISTICS

Cathode bias resistor											400 ohms
Plate current											12 ma
Transconductance.											4500 µmhos
Amplification factor											25
Grid voltage for 10 microamperes DC —28 V DC											

TYPICAL OPERATING CONDITIONS

(1)	UHF Oscillato	rС	W	
	Plate voltage			150 V DC
	Plate current			15 ma DC
	Grid resistor			3000 ohms
	Frequency .			1000 mc
	Power output			500 mw

(2) UHF Oscillator CW Plate voltage . 150 V DC Grid resistor 25 ma DC 100 obms

Cathode resistor* 100 ohms approx. Frequency . . 3300 mc Power output . 200 mw min.

* Adj. for rated plate current

(3) UHF Oscillator CW

Plate voltage 200 V DC
Plate current 25 ma DC Grid resistor . 100 ohms Cathode resistor* 100 ohms approx. Frequency . . 3300 mc Power output . 450 mw min.

* Adj. for rated plate current

(4) Pulse Operation

Plate voltage (Peak)* 1500 volts Frequency . . . 3300 mc Power output (Peak) 175 watts Peak emission . . . 1500 ma min.

*Test Conditions:

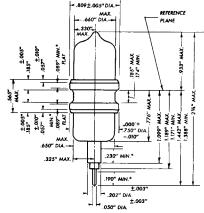
Pulse width, 1 µsec Pulse rep. rate = 2000 pps.

**Test Conditions:

Plate voltage (peak) = 100 V Pulse width = $3 \mu sec$ Pulse rep. rate = 500 pps.

MECHANICAL DATA





*CONTACT AREA