

# Shuguang Vacuum Tube 5881

## Beam Tetrode: 5881A (5881)

*Compatible with: 6L6G, 6L6GA, 6L6GB and 6L6GC*

### DESCRIPTION

The plate power dissipation of beam power tube 5881A can reach 23W. For audio frequency amplifier, two tubes can be used as class A and AB amplification. 5881A also can be used as rectifying circuitry. 5881A is compatible with 6L6G, 6L6GA, 6L6GB and 6L6GC, and they can be substituted each other.



**SPECIFICATION**

**Filament Heating**

UH .....6.3 V  
IH.....0.9 V

**Maximum Ratings**

Plate voltage.....400 V  
Capacitance between grid No.2 and heater.....400 V  
Plate power dissipation.....23 W  
Second grid power dissipation.....3 W  
Geater voltage between cathodes.....±200 V  
First grid resistance  
For self-biasing.....0.5 MΩ  
For fixed-biasing.....0.1 MΩ

**Capacitance**

input capacitance.....11.5 PF  
output capacitance.....9.5 PF  
Muller capacitance.....0.9 PF

**DC Parameters**

Ua.....250V  
Ug2.....250V  
-Ug1.....14V  
Ia.....72 mA  
Ig2.....5 mA  
Gm.....6 mA/V  
ri.....22.5 kΩ  
ug1-g2.....6.2  
Pout.....6.5 W

**Recommend Operating Condition** (suggested value)

For single tube class A amplifier

Maximum ratings for class A amplification

Ua(0).....300 V  
Ug2.....200 V  
-Ug1(approx).....12.5 V  
RL.....4.5 kΩ  
üg(pk).....12.5 V  
Ia(0).....48 mA  
Ia(max.sig).....55 mA  
Ig2(0) .....2.5 mA  
Ig2(max.sig) .....4.7 mA  
Gm.....5.3 mA/V  
ri.....35 kΩ  
Pout.....6.5 W  
Dtot.....11 %

Maximum ratings for class A amplification

Ua.g2(0).....300 V  
-Ug1(approx).....20 V  
RL.....4 kΩ  
üg(pk).....20 V  
Ia+g2.....78 V  
Ia+g2(max.sig).....85 mA  
Pout.....1.8 W  
Dtot.....5.5 %

**Class AB amplifier**

Operating condition(value of two tubes)

Ua.g2(0).....	400 V
-Ug1(approx).....	45 V
Rl.....	4 kΩ
üg(g1-g1.pk).....	90 V
Ia+g2.....	65 mA
Ia(max.sig).....	130 mA
Pout.....	13.3 W
Dtot.....	4.4 %

**Class AB amplifier**

Operating condition(value of two tubes)

Ua(0).....	360 360 V
Ug2.....	225 270 V
-Ug1(approx).....	18 22.5 V
Rl.....	6 3.8 kΩ
üg(g1-g1.pk).....	36.7 50.9 V
Ia(0).....	78 88 mA
Ia(max.sig).....	142 205 mA
Ig2(0).....	3.5 5 mA
Ig2(max.sig).....	11 16 mA
Pout.....	31 42 W
Dtot.....	2 2 %