

DUO-DIODE PENTODE
DETECTOR AMPLIFIER

Heater Type

Glass Bulb

The 6B8G is a duo-diode pentode type amplifier tube designed for service as combined diode detector, AVC rectifier and r-f, i-f, or a-f amplifier.

RATINGS

Heater Voltage	6.3	volts
Heater Current	0.5	amp
Max. Plate Voltage	250	volts
Max. Screen Voltage	125	volts

DIRECT INTERELECTRODE CAPACITANCES - PENTODE SECTION
(With close fitting shield connected to cathode)

Grid to Plate	0.007 max.	μ f
Input	3.5	μ f
Output	9.5	μ f

AMPLIFIER - R-F or I-F - PENTODE SECTION

Plate Voltage	100	180	250	250	volts
Screen Voltage	100	75	100	125	volts
Grid Bias	-3	-3	-3	-3	volts
Amplification Factor	285	840	800	730	
Plate Resistance	0.3	1	0.8	0.65	megohm
Transconductance	950	840	1000	1125	μ mhos
Plate Current	5.8	3.4	6	9	ma
Screen Current	1.7	0.9	1.5	2.3	ma
Grid Bias	-17	-13	-17	-21	volts

(For Cathode Current Cutoff)

AMPLIFIER - RESISTANCE COUPLED - PENTODE SECTION

Plate Supply Voltage	250	250	250	volts
Screen Voltage	45	50	100	volts
Grid Bias	-5	-4.5	-3	volts
Plate Resistor	0.5	0.25	0.027	megohm
Plate Current	0.25	0.65	5.4	ma

DIODE SECTION

The two diode units are independent of each other and of the pentode section except for the common cathode. The diodes may be used as a half wave or as a full wave rectifier; or one diode may be used as a half wave rectifier for detection, and the other diode used as a rectifier to obtain delayed AVC voltage.

