



SHARP-CUTOFF PENTODE

Metal type used as rf amplifier in high-frequency, wide-band applications and as a limiter tube in FM equipment. Outline 3, **OUTLINES SECTION**. Tube requires octal socket

6SH7

and may be mounted in any position. Two separate cathode terminals enable the input and output circuits to be isolated effectively from each other. This type is not recommended for high-gain audio-amplifier applications because undesirable hum may be encountered. For typical operation as a resistance-coupled amplifier, refer to Chart 6, **RESISTANCE-COUPLED AMPLIFIER SECTION**.

HEATER VOLTAGE (AC/DC)	6.3	volts
HEATER CURRENT	0.3	ampere
DIRECT INTERELECTRODE CAPACITANCES:		
Grid No.1 to Plate	0.003 <i>max</i>	$\mu\mu\text{f}$
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Shell	8.5	$\mu\mu\text{f}$
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Shell	7.0	$\mu\mu\text{f}$
Maximum Ratings:		
CLASS A₁ AMPLIFIER		
PLATE VOLTAGE	300 <i>max</i>	volts
GRID NO.2 (SCREEN-GRID) VOLTAGE	See curve page 69	
GRID-NO.2 SUPPLY VOLTAGE	300 <i>max</i>	volts
PLATE DISSIPATION	3 <i>max</i>	watts
GRID-NO.2 INPUT:		
For grid-No.2 voltages up to 150 volts	0.7 <i>max</i>	watt
For grid-No.2 voltages between 150 and 300 volts	See curve page 69	
GRID-NO.1 (CONTROL-GRID) VOLTAGE, Positive bias value	0 <i>max</i>	volts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 <i>max</i>	volts
Heater positive with respect to cathode	90 <i>max</i>	volts

Characteristics:

Plate Voltage	100	250	volts
Grid-No.2 Voltage	100	150	volts
Grid-No.1 Voltage	-1	-1	volt
Plate Resistance (Approx.)	0.35	0.9	megohm
Transconductance	4000	4900	μ mhos
Grid-No.1 Voltage for plate current of 10 μ a	-4.0	-5.5	volts
Plate Current	5.3	10.8	ma
Grid-No.2 Current	2.1	4.1	ma