

SYLVANIA ELECTRIC

RMA Registration Data

TYPE 6BU6

DOUBLE - DIODE TRIODE

MECHANICAL DATA

Style	miniature
Cathode	coated, unipotential
Bulb	T-5 1/2
Base	E7-1, miniature button 7-pin
Outline	5-3
Maximum Diameter	3/4 inch
Maximum Overall Length	2 5/8 inches
Maximum Seated Height	2 3/8 inches
Basing	7BT-0-2
<i>Pin Connections:</i>	
Pin 1 .. grid	Pin 5 .. #2 diode plate
Pin 2 .. cathode, diode shield	Pin 6 .. #1 diode plate
Pin 3 .. heater	Pin 7 .. triode plate
Pin 4 .. heater	

Mounting Position any

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES

	<u>without shield</u>	<u>with shield</u> ⁽¹⁾
#2 Diode Input: #2p to (h+k+i.s.)	1.0	1.0 μ f
#1 Diode Input: #1p to (h+k+i.s.)	1.0	1.0 μ f
#1 Diode Plate to Grid, maximum013	.01 μ f

RATINGS -- Design Center Values

Heater Voltage (ac or dc)	6.3 volts
Maximum Heater-Cathode Voltage	90 volts
Maximum Plate Voltage (dc)	300 volts
Maximum Positive Grid Voltage (dc)	0 volts
Maximum Continuous Diode Current (each plate)..	1.0 milliamp

CHARACTERISTICS AND TYPICAL OPERATION

Heater Voltage	6.3 volts
Heater Current	300 milliamps
Plate Voltage (dc)	250 volts
Grid Voltage (dc)	-9 volts
Plate Current	9.5 milliamps
Plate Resistance	8,500 ohms
Transconductance	1,900 micromhos
Amplification Factor	16
Load Resistance	10,000 ohms
Total Harmonic Distortion	6.5 percent
Power Output	300 milliwatts
Average Diode Current, at 10 volts dc (each plate)	4.0 milliamps

(1) External shield #316
connected to Pin 2.