

SYLVANIA ELECTRIC**RMA Registration Data****TYPE 6BT6****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
Pin Connections:	
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 $\mu\mu f$
#1 Diode Input: #1p to (h+k+i.s.)	1.0	1.0 $\mu\mu f$
#1 Diode Plate to Grid, maximum	.013	.01 $\mu\mu f$

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

Heater Voltage	6.3	6.3	volts
Heater Current	300	300	milliamps
Plate Voltage (dc)	100	250	volts
Grid Voltage (dc)	-1	-3	volts
Plate Resistance	54,000	58,000	ohms
Plate Current	0.8	1.0	milliamp
Transconductance	1,300	1,200	micromhos
Amplification Factor	70	70	
Diode Current, at 10 volts dc (each plate)			
Minimum		1.5	milliamps
Average		4.0	milliamps

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