

SYLVANIA ELECTRIC

RMA Registration Data

TYPE 12BT6

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 $\mu\mu\text{f}$
#1 Diode Input: #1p to (h+k+i.s.)	1.0	1.0 $\mu\mu\text{f}$
#1 Diode Plate to Grid, maximum	.013	.01 $\mu\mu\text{f}$

RATINGS -- Design Center Values

Heater Voltage (ac or dc)	12.6	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	12.6	12.6	volts
Heater Current	150	150	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.