

SYLVANIA ELECTRIC**RMA Registration Data****TYPE 3E5****BEAM PENTODE****MECHANICAL DATA**

Style	miniature
Cathode	coated filament
Bulb	T-5 1/2
Base	E7-1, Miniature Button 7-Pin
Outline	5-2
Maximum Diameter	3/4 inch
Maximum Overall Length	2 1/8 inches
Maximum Sealed Height	1 7/8 inches
Basing	6BX-0-0
<i>Pin Connections:</i>	
Pin 1 .. negative filament (series connection)	Pin 5 .. negative filament (parallel connection), beam plates
Pin 2 .. plate	Pin 6 .. grid #1
Pin 3 .. grid #2	Pin 7 .. positive filament
Pin 4 .. no connection	
Mounting Position	any

ELECTRICAL DATA**RATINGS -- Design Center Values**

	<u>Parallel Filaments</u>	<u>Series Filaments</u>
Filament Voltage ⁽¹⁾	1.4	2.8 volts
Maximum Plate Voltage (dc)....	110	110 volts
Maximum Grid #2 Voltage (dc)..	110	110 volts
Maximum Cathode Current	8	4 ⁽²⁾ volts

CHARACTERISTICS AND TYPICAL OPERATION

	<u>Parallel Filaments</u>	<u>Series Filaments</u>
Filament Voltage	1.4	2.8
Filament Current	50	25
Plate Voltage (dc)	67.5	67.5
Grid #2 Voltage (dc)	67.5	90
Grid #1 Voltage (dc)	-5.0	-8.0
Plate Current	5.0	4.5
Grid #2 Current	1.0	1.0
Plate Resistance	120,000	140,000
Transconductance	1,300	1,200
Peak Signal Voltage (af) ..	5.0	8.0
Load Resistance	7,000	8,000
Total Harmonic Distortion..	7.5	9.5
Power Output	100	200
		90
		175
		volts
		milliamps
		volts
		volts
		milliamps
		milliamps
		ohms
		micromhos
		volts
		ohms
		per cent
		milliwatts

(1) For power-line operation the filament voltage is centered at 1.4 or 2.8 volts respectively with parallel or series filaments for normal line voltage (117 volts).

(2) Each 1.4 volt filament section. (Shunting resistor across negative section of filament is necessary to limit current to value shown.)