



DOUBLE TRIODE

DESCRIPTION

The 5873 is a heater-cathode type, medium mu, double triode of subminiature construction designed for general purpose service. It is particularly useful in applications requiring extreme economy of space and weight. It has electrical characteristics very similar to the miniature type 12AU7 and may be used in most 12AU7 applications without changing circuit values, providing the operating conditions are within the 5873 Design Center Maximum Ratings. The flexible terminal leads may be soldered or welded directly to circuit components without the use of sockets. Standard subminiature sockets may be used by cutting the leads to 0.20" length.

MECHANICAL DATA

Envelope: T-3 Glass

Base: Subminiature Button 8-Pin (0.016" tinned flexible leads.
Length: 1.2" min.)

Terminal Connections:

Pin 1 Heater	Pin 5 Cathode, Unit #1
Pin 2 Plate, Unit #2	Pin 6 Grid, Unit #1
Pin 3 Grid, Unit #2	Pin 7 Plate, Unit #1
Pin 4 Cathode, Unit #2	Pin 8 Heater

Mounting Position: Any

ELECTRICAL DATA

Direct Interelectrode Capacitances: Unshielded (µmfd.)

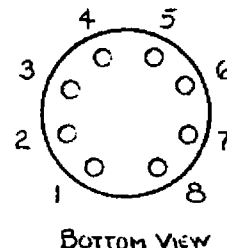
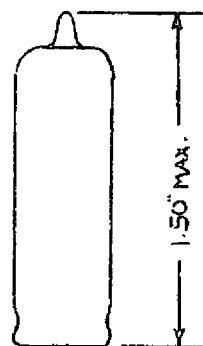
Grid to Plate (Each Unit)	1.5
Grid to Cathode (Each Unit)	1.6
Plate to Cathode (Each Unit)	1.0
Grid to Grid	0.01
Plate to Plate	0.25
Heater to Cathode (Each Unit)	1.8

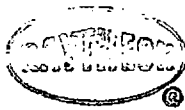
Design Center Maximum Ratings:

Heater Voltage	6.3	volts
Plate Voltage	300	volts
Plate Dissipation (Each Unit)	1.60	watts
Cathode Current (Each Unit)	20	ma.
DC Heater-to-Cathode Voltage	≤90	volts

Characteristics and Typical Operation: -(Each Unit)

Heater Voltage	6.3	6.3	volts
Heater Current	300	300	ma.
Plate Voltage	100	150	volts
Grid Voltage *	0	-3.0	volts
Plate Current	11.5	9.0	ma.
Transconductance	3600	2900	µmh/s
Amplification Factor	25	22	
Grid Voltage (approx.) for Plate Current = 50 µa.	11	14	volts





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- * Under maximum rated conditions, the dc resistance of the grid circuit should not exceed 1.0 megohms for cathode bias or .25 megohms for fixed bias operation.

Tentative Data
September 10, 1951

Rev. 1
CS-2582
Page 2 of 2