SYLVANIA ELECTRIC

RTMA Registration Data

TYPE 5845

TEMPERATURE-LIMITED DOUBLE DIODE

The Type 5845 is double diode with a tungsten filament which is operated under the condition of temperature-limited emission. The plate current is dependent on filament voltage.

MECHANICAL DATA

Style ..... miniature
Cathode ..... tungsten 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 Seated Height ..... 1 7/8 inches
Mounting Position:
  Vertical ..... base up or down
  Horizontal ..... pins 3 and 4 in vertical plane
Basing 5CA
  Pin Connections:

Pin 1 .. plate #2	Pin 5 .. plate #1
Pin 2 .. no connection	Pin 6 .. no connection
Pin 3 .. filament	Pin 7 .. filament center tap
Pin 4 .. filament	

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCE

Diode Input (each section)..... 0.8 μμf

RATINGS -- *Design Center System*

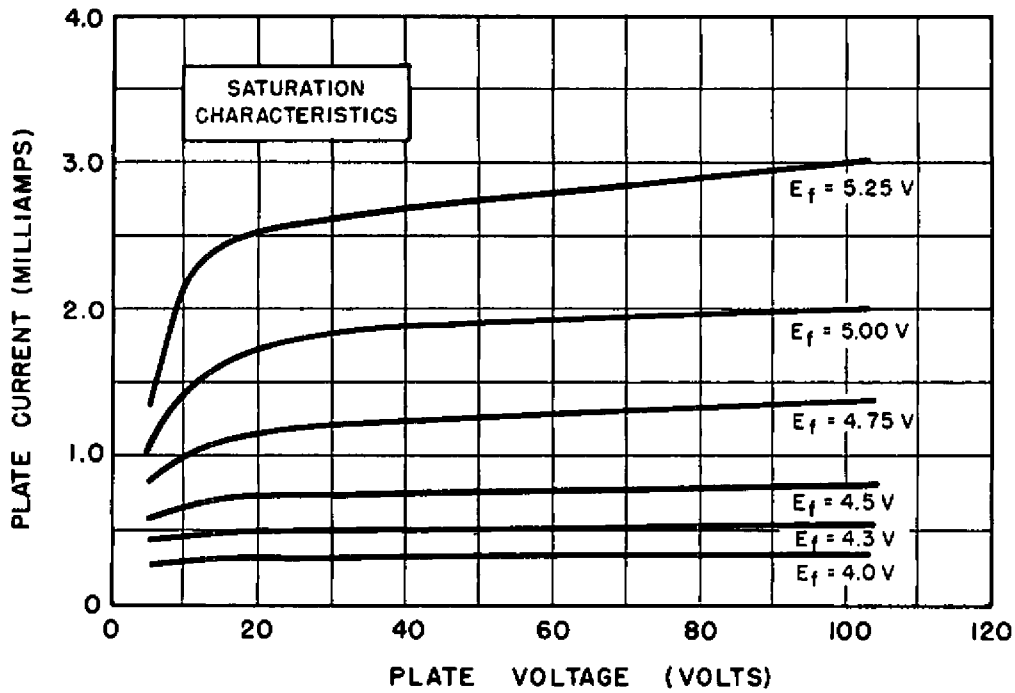
Maximum Filament Voltage (series) ..... 5.0 volts
Maximum Plate Voltage (dc) ..... 300 volts
Maximum Plate Current (dc) (each plate) ..... 2.0 milliamps
Maximum On Period, with 50% Duty Cycle ..... 5.0 minutes

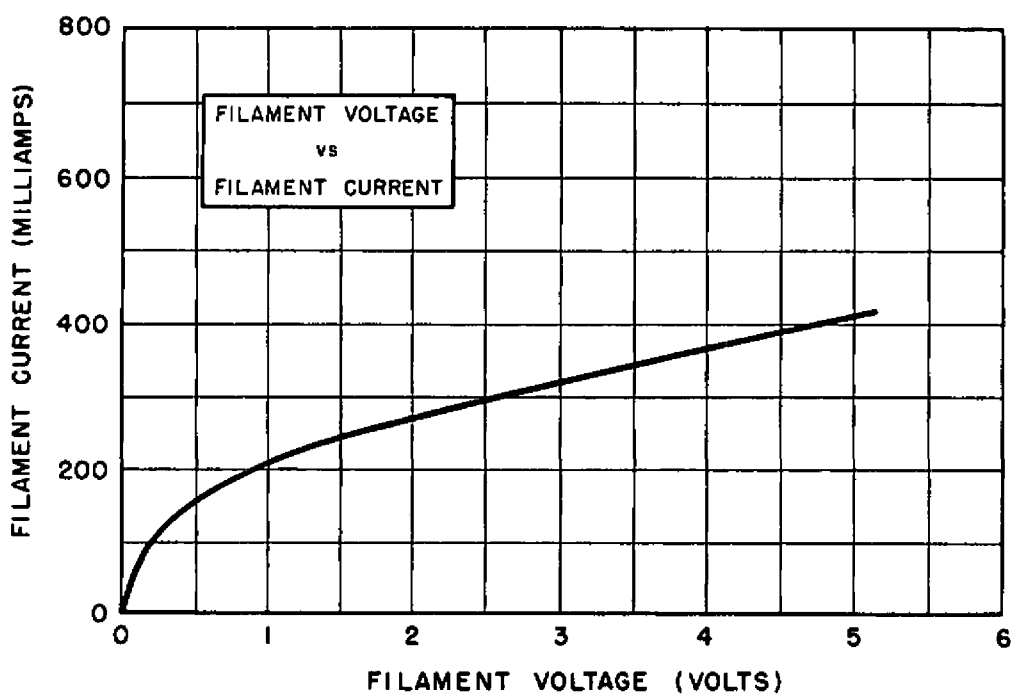
TYPICAL OPERATION -- *Plates Connected Together*

Filament Voltage (series) ..... 4.3 volts
Filament Current (series) ..... 435 milliamps
Plate Voltage (dc) ..... 300 volts
Plate Load Resistor ..... 0.6 megohm
Plate Current (dc) (both plates) ..... 0.5 milliamp

from RMA release #909A, March 15, 1951

TYPE 5845


SATURATION CHARACTERISTICS
PLATE CURRENT (MILLIAMPS)
PLATE VOLTAGE (VOLTS)
E_f = 5.25 V
E_f = 5.00 V
E_f = 4.75 V
E_f = 4.5 V
E_f = 4.3 V
E_f = 4.0 V
0
1.0
2.0
3.0
4.0
0
20
40
60
80
100
120


FILAMENT VOLTAGE
vs
FILAMENT CURRENT
FILAMENT CURRENT (MILLIAMPS)
FILAMENT VOLTAGE (VOLTS)
0
200
400
600
800
0
1
2
3
4
5
6