

# 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  $\mu$ f

##### 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

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