

# SYLVANIA ELECTRIC

## RTMA Registration Data

from RTMA release #946,  
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### TYPE 6055

#### TRIODE

The Type 6055 is a subminiature medium-mu triode capable of operation in the uhf region. This type is characterized by long life and stable performance. It is designed for service where severe conditions of mechanical shock and vibration are encountered.

#### MECHANICAL DATA

##### GENERAL

Style ..... subminiature  
Cathode ..... coated, unipotential  
Bulb ..... T-3  
Base ..... K8-1, <sup>(1)</sup> Subminiature Button--Flexible Leads  
Outline ..... 3-1  
Maximum Bulb Diameter ..... 0.400 inch  
Maximum Overall Bulb Length ..... 1.375 inches  
Maximum Lead Length ..... 1.500 inches  
Mounting Position ..... any  
Basing ..... 8DK  
Lead Connections:  
Lead 1 .. grid #1                      Lead 5 .. cathode  
Lead 2 .. no connection                Lead 6 .. heater  
Lead 3 .. heater                        Lead 7 .. no connection  
Lead 4 .. no connection                Lead 8 .. plate

##### RATINGS<sup>(2)</sup>

Maximum Impact Acceleration<sup>(3)</sup> ..... 450 g  
Maximum Uniform Acceleration<sup>(4)</sup> ..... 1,000 g  
Maximum Vibrational Acceleration for  
Extended Periods<sup>(5)</sup> ..... 2.5 g

#### ELECTRICAL DATA

##### GENERAL

Direct Interelectrode Capacitances:  
Grid to Plate ..... 1.80  $\mu\mu\text{f}$   
Input ..... 2.20  $\mu\mu\text{f}$   
Output ..... 0.80  $\mu\mu\text{f}$   
Heater Voltage (ac or dc) ..... 26.5 volts  
Heater Current ..... 45 milliamps

##### RATINGS<sup>(2)</sup> -- Absolute System

Heater Voltage (ac or dc)<sup>(6)</sup> ..... 26.5 ( $\pm 5\%$ ) volts  
Maximum Plate Voltage (dc) ..... 55 volts  
Maximum Plate Current ..... 22 milliamps  
Maximum Grid Current ..... 8.5 milliamps  
Maximum Heater-Cathode Voltage .....  $\pm 200$  volts

(See Page 2 for notes.)

**TYPE 6055**

CHARACTERISTICS

Conditions:

Heater Voltage (ac or dc) .....	26.5	volts
Plate Voltage (dc) .....	26.5	volts
Grid Resistor .....	2.2	megohms
Plate Current .....	3.0	milliamps
Transconductance .....	5,000	micromhos
Amplification Factor .....	19	
Grid Voltage for 10 $\mu$ amps Plate Current .....	-3.5	volts
Noise Output Voltage, maximum <sup>(7)</sup> .....	100	millivolts
Life Expectancy, at 160 °C Maximum Bulb Temperature .....	5,000	hours

- (1) *With 1.500 inches Minimum Lead Length as specified above.*
- (2) *Limitations beyond which normal tube performance and tube life may be impaired.*
- (3) *Forces in any direction as applied by the Navy Type High Impact (Flyweight) Shock Machine for Electric Devices, or equivalent.*
- (4) *Forces in any direction applied gradually, as in centrifuge.*
- (5) *Vibrational forces in any direction at 60 cycles per second for a period exceeding 100 hours.*
- (6) *Tube life and reliability of performance are directly related to the degree of regulation of the heater voltage to its center-rated value of 26.5 volts.*
- (7) *Across plate resistor of 10,000 ohms, with applied vibrational acceleration of 15 g at 40 cycles per second.*