

MECHANICAL DATA

Bulb	T-6½
Base	E9-1, Small Button 9-Pin
Outline	(See Drawing)
Basing	9BD
Cap	C1-2, Skirted Miniature
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage	6.3 Volts
Heater Current	1.75 Amperes
Heater Cathode Voltage	
Heater Positive with Respect to Cathode	
Design Center Values:	
DC	100 Volts Max.
Total DC and Peak	300 Volts Max.
Heater Negative with Respect to Cathode	
Absolute Values ³ :	
DC	750 Volts Max.
Total DC and Peak	6750 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Approx.)

Heater to Cathode	1.5 μmf
Plate to Cathode and Heater	8.0 μmf
Cathode to Plate and Heater	9.0 μmf

RATINGS (Design Center Values — Except as Noted)

Damper Service ^{1, 2}	
Peak Inverse Plate Voltage (Abs. Max.) ³	6000 Volts
Plate Dissipation	2.7 Watts Max.
Steady State Peak Current	800 Ma Max.
DC Output Current	135 Ma Max.

CHARACTERISTICS

Tube Voltage Drop	
$I_b = 250 \text{ Ma DC}$	19 Volts

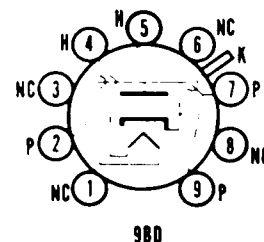
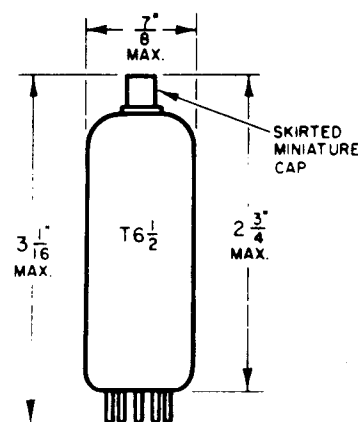
NOTES:

1. For operation in a 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations: Federal Communications Commission", the duty cycle of the voltage pulse must not exceed 15% of one scanning cycle.
2. Power rectifier operation is not recommended
3. Should not be exceeded under any condition of high line voltage or misadjustment.

QUICK REFERENCE DATA

The Sylvania 6V3A is a heater cathode type diode designed for service as a damping diode in television receiver direct drive sweep circuits. The cathode is connected to the top cap.

Except for bulb length, the Type 6V3A is identical to the Type 6V3. The 6V3A should be considered as the replacement for the Type 6V3.



SYLVANIA ELECTRIC
PRODUCTS INC.

RADIO TUBE DIVISION
EMPORIUM, PA.

Prepared and Released By The
TECHNICAL PUBLICATIONS SECTION
EMPORIUM, PENNSYLVANIA

FEBRUARY, 1955

PAGE 1 OF 2

AVERAGE PLATE CHARACTERISTICS

