

RECTIFIER
FULL-WAVE, HIGH VACUUM

Western Electric

DESCRIPTION

The 351A is an octal based full-wave rectifier with indirectly heated cathodes. It is designed to supply direct current from an alternating current source or to rectify radio-frequency currents for feedback purposes in broadcast transmitters.

CHARACTERISTICS

Heater Voltage	6.3 volts
Maximum Plate Voltage (RMS) per Plate	400 volts
Maximum D-C Output Current	100 milliamperes

GENERAL CHARACTERISTICS**ELECTRICAL DATA**

Heater Voltage	6.3 volts
Heater Current	1.0 ampere

MECHANICAL DATA

Cathode	Coated unipotential
Bulb	ST12
Base	Small shell octal
Mounting Position	Any
Dimensions and pin connections shown in outline drawing on Page 4	

MAXIMUM RATINGS, Design-Center Values

Peak Inverse Voltage	1250 volts
Peak Plate Current per Plate	300 milliamperes
Peak Transient Plate Current per Plate	1.0 ampere
Peak Heater-Cathode Voltage	450 volts

With Choke-Input Filter:

A-C Plate Voltage per Plate (RMS)	400 volts
D-C Output Current	100 milliamperes
Minimum Input-Choke Inductance	4 henrys

With Condenser-Input Filter:

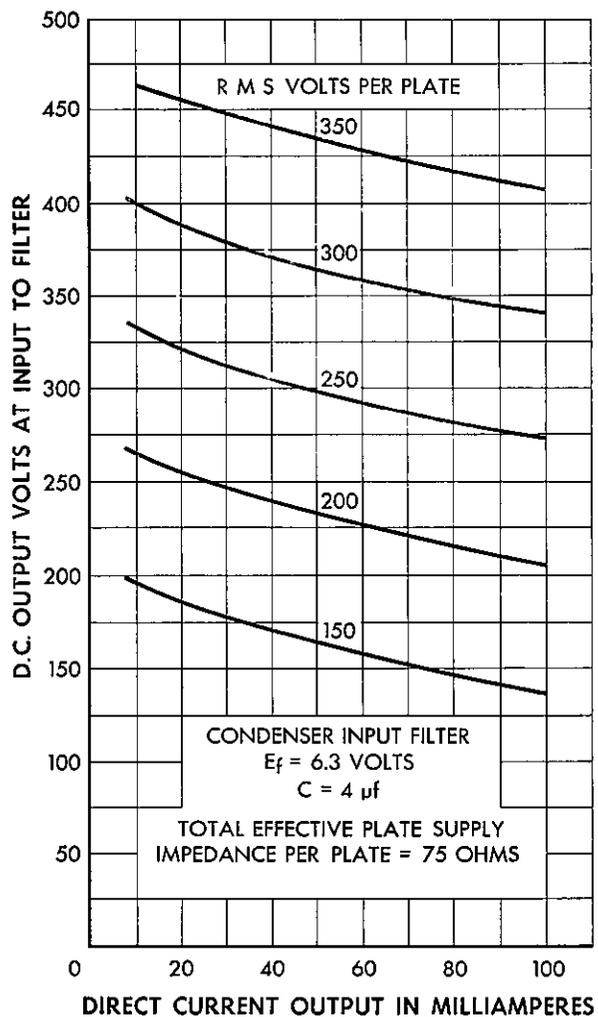
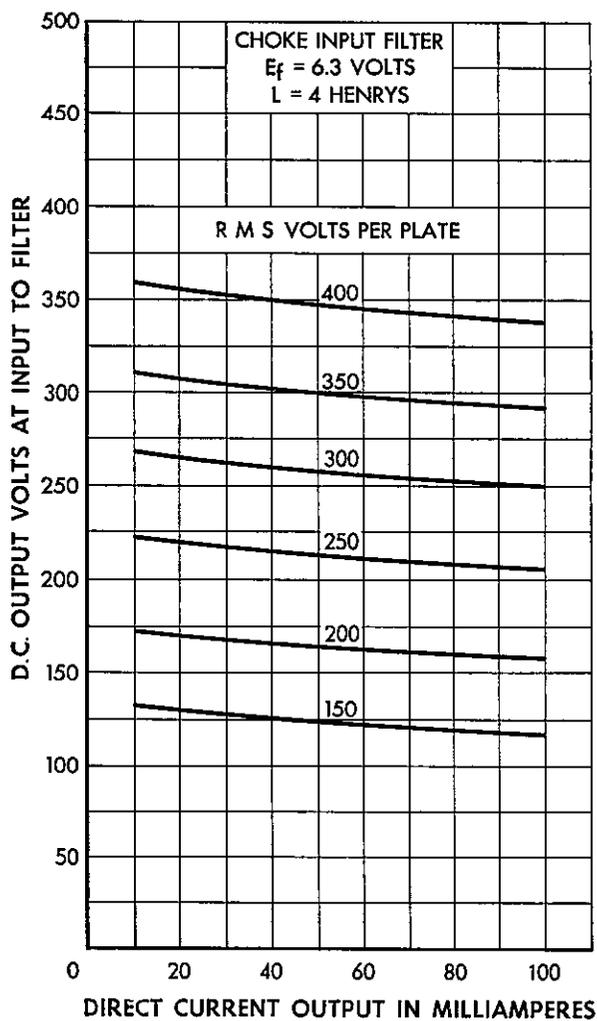
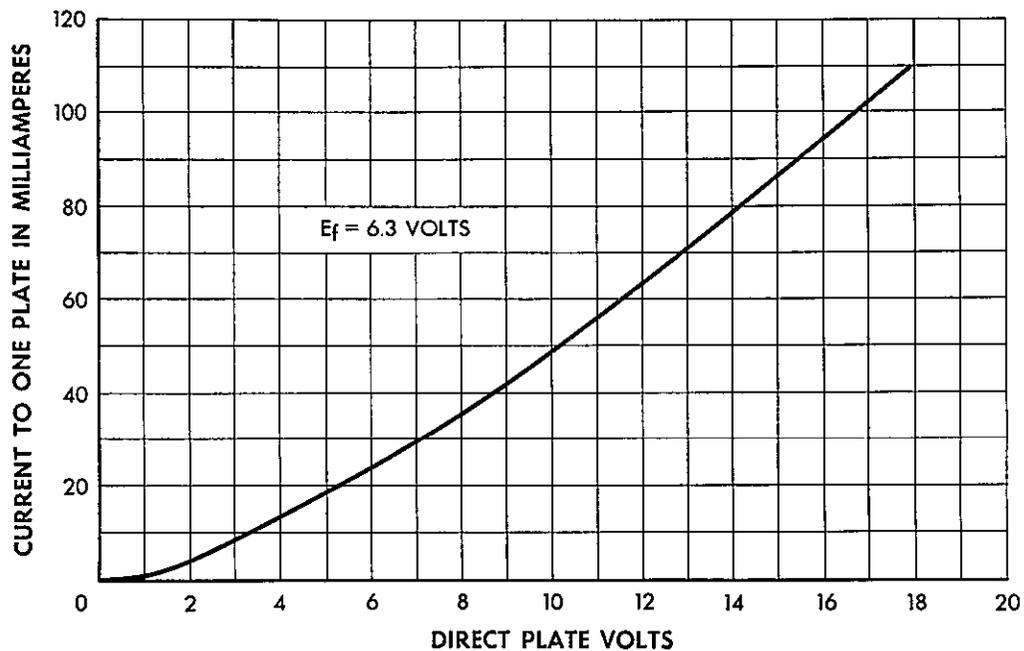
A-C Plate Voltage per Plate (RMS)	350 volts
D-C Output Current	100 milliamperes
Minimum Total Effective Plate-Supply Impedance per Plate	75 ohms

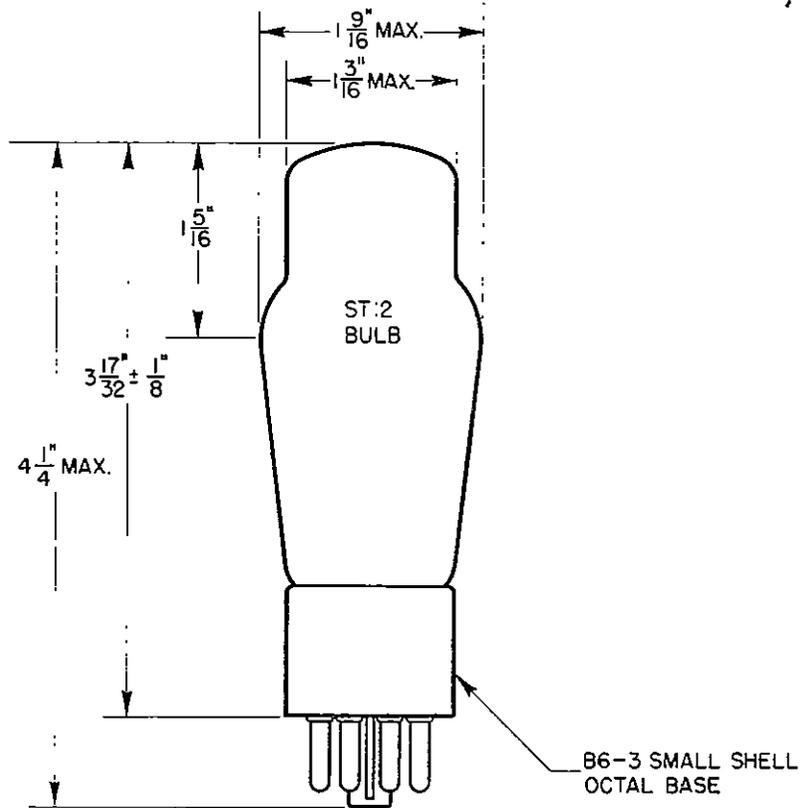
TYPICAL OPERATING CONDITIONS**With Choke-Input Filter:**

A-C Plate Voltage per Plate (RMS)	350 volts
D-C Output Current	100 milliamperes
D-C Output Volts, Approximate, at Input to Filter	290 volts
Filter Input Choke	6 henrys

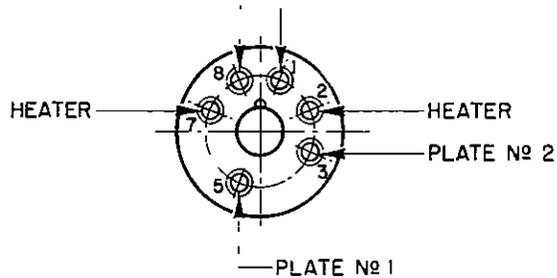
With Condenser-Input Filter:

A-C Plate Voltage per Plate (RMS)	300 volts
D-C Output Current	90 milliamperes
D-C Output Volts, Approximate, at Input to Filter	340 volts
Total Effective Plate-Supply Impedance per Plate	150 ohms
Filter Input Condenser	4 microfarads





CATHODE — — NO CONNECTION



Western Electric

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