THE TUNG-SOL 5V4G AND 83V ARE POWER RECTIFIERS WITH LOW INTERNAL VOLTAGE DROPS. THEY ARE DESIGNED FOR SERVICE IN AC OPERATED RECEIVERS THAT REQUIRE HIGH CURRENTS. THEIR RATINGS AND ELECTRICAL CHARACTERISTICS ARE IDENTICAL.

RATINGS

MAXIMUM PEAK INVERSE VOLTAGE
1400 VOLTS

MAXIMUM STEADY-STATE PEAK PLATE CURRENT PER PLATE
525 MA.

OPERATING CONDITIONS AND CHARACTERISTICS

FULL WAVE RECTIFIER WITH CONDENSER INPUT TO FILTER

AC PLATE VOLTAGE PER PLATE (RMS) MAX.
375 VOLTS

DC OUTPUT CURRENT MAX.
175 MA.

TOTAL EFFECTIVE PLATE SUPPLY IMPEDANCE PER PLATE
65 OHMS

FULL WAVE RECTIFIER WITH CHOKE INPUT TO FILTER

AC PLATE VOLTAGE PER PLATE (RMS) MAX.
500 VOLTS

DC OUTPUT CURRENT MAX.
175 MA.

VALUE OF INPUT CHOKE MAX.
4.0 HENRYS

TUBE VOLTAGE DROP
23 VOLTS AT 175 MA. PER PLATE

A WHEN FILTER CONDENSERS LARGER THAN 40 MFDS ARE USED, IT MAY BE NECESSARY TO ADD ADDITIONAL PLATE SUPPLY IMPEDANCE.

FOR "INTERPRETATION OF RATINGS", REFER TO FRONT OF BOOK.

CONTINUED NEXT PAGE
5V4G (83V)

5V4G, 83V
\( E_f = 5.0 \text{ Volts} \)
ONE PLATE ONLY

DC PLATE VOLTS

PLATE CURRENT IN MILLIAMPERES

0 10 20 30 40 50

5V4G, 83V
\( E_f = 5.0 \text{ Volts} \)
FULL WAVE RECTIFIER

\( E_{\text{input}} = 400 \text{ V. RMS PER PLATE} \)
\( C = 8 \mu f \)
\( C = 4 \mu f \)

DC OUTPUT IN VOLTS

0 100 200 300 400 500

DC LOAD IN MILLIAMPERES

0 50 100 150 200 250

= CONDENSER INPUT
= CHOKE INPUT, \( L = 20 \text{ h} \)