



5552

5552

IGNITRON

SIZE C

DATA

General:

Peak Voltage Drop. 12 volts

Cooling:

Type Water

Minimum Flow 1.5 gal./min.

Pressure Drop per tube, at Minimum Flow. 4.5 lb./sq.in. ←

Maximum Outlet Water Temperature 40°C

Minimum Outlet Water Temperature 10°C

Temp. Rise at Min. Flow (Average

Current 100 amp/anode) Approx. 3°C

Mounting Position. Vertical, Flexible Lead Up

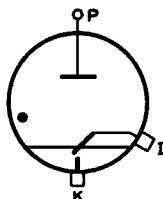
Maximum Rigid Length (Approx.) 14-1/2"

Maximum Diameter, Including Cooling Connections. 7-1/4"

Terminal Connections:

I - Ignitor

K - Cathode



P - Anode

AC WELDER-CONTROL SERVICE®

*Ratings are for any voltage from 250 to 600 volts rms
at frequencies from 25 to 60 cycles per second*

Maximum Ratings, Absolute Values:

Two Tubes in Inverse Parallel

DEMAND 1200 max. kva

Average Anode Current at Maximum Demand. 75.6 max. amp

ANODE CURRENT:

Average* 140 max. amp

Demand at Max. Average Anode Current 400 max. kva ←

Fault:

At 600 volts rms 5600 max. amp

At 250 volts rms 13450 max. amp ←

PEAK IGNITOR VOLTAGE:

Positive§. { 900 max. volts

Negative { 200 min. volts

5 max. volts

IGNITOR CURRENT:

Peak§. { 100 max. amp

30 min. amp

Average** 1 max. amp

IGNITOR IGNITION TIME§ 100 max. μsec

® RMS demand-voltage, -current, and -kva are on the basis of full-cycle conduction (no phase delay) regardless of whether or not phase-control is used. Use the 250-volt rating for voltages below 250 volts.

* Averaged over any 5.8-second maximum interval for operation at 600 volts rms and over any 14-second maximum interval at 250 volts rms.

§, **: See next page.

← Indicates a change.

MARCH 1, 1951

TUBE DEPARTMENT

DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

5552



55 52

IGNITRON

INTERMITTENT RECTIFIER SERVICE

For frequencies from 25 to 60 cycles per second

Maximum Ratings, Absolute Values:

PEAK ANODE VOLTAGE:

Forward	500 max.	volts
Inverse	500 max.	volts

ANODE CURRENT:

Peak.	1600 max.	amp
Average [□]	100 max.	amp
Fault, for 0.15 second maximum.	6000 max.	amp

PEAK IGNITOR VOLTAGE:

Positive [§]	{ 900 max.	volts
	{ 200 min.	volts
Negative.	5 max.	volts

IGNITOR CURRENT:

Peak [§]	{ 100 max.	amp
	{ 30 min.	amp
Average ^{**}	1 max.	amp

IGNITOR IGNITION TIME [§]	100 max.	μsec
--	----------	------

[§] Ignition will occur if either minimum peak positive ignitor potential is applied, or minimum peak ignitor current flows, for the rated maximum ignition time.

^{**} Averaged over any 5-second maximum interval.

[□] Averaged over any 6-second maximum interval.

*Curves for the 5552 in AC Welder-Control Service
are shown under Type 5550*



5552

IGNITRON

5552

