



ELECTRONIC TUBE REFERENCE

FG235A

Specialized - Ignitron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

IGNITRONPOWERSWITCH

Water-cooled ignitron for welder-control and rectifier service. Controlled mercury-pool discharge handles extremely high industrial currents.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 IgnitronPowerSwitch	
PEAK INVERSE VOLTAGE	500 V
NOMINAL OUTPUT CURRENT	100 mA
PEAK FORWARD CURRENT	1600 A
FORWARD VOLTAGE DROP	12 V
Ignitron. Intermittent-rectifier service values promoted; welder-control values preserved as parameters.	

The FG-235-A is a steel-jacketed water-cooled ignitron capable of very high peak currents, especially suited to resistance-welder control and also usable for intermittent rectifier service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1968 GENERAL ELECTRIC CO

Section 1 · IgnitronPowerSwitch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Welder Maximum Demand	1200 kVA	WelderControl 250to600Vrms
Welder Maximum Average Anode Current	140 A	WelderControl
Rectifier Surge Anode Current	6000 A	IntermittentRectifier 0.15Second

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ignitor Required Positive Voltage	200 V	Ignition
Ignitor Required Current	30 A	Ignition

TUBE TINKER

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