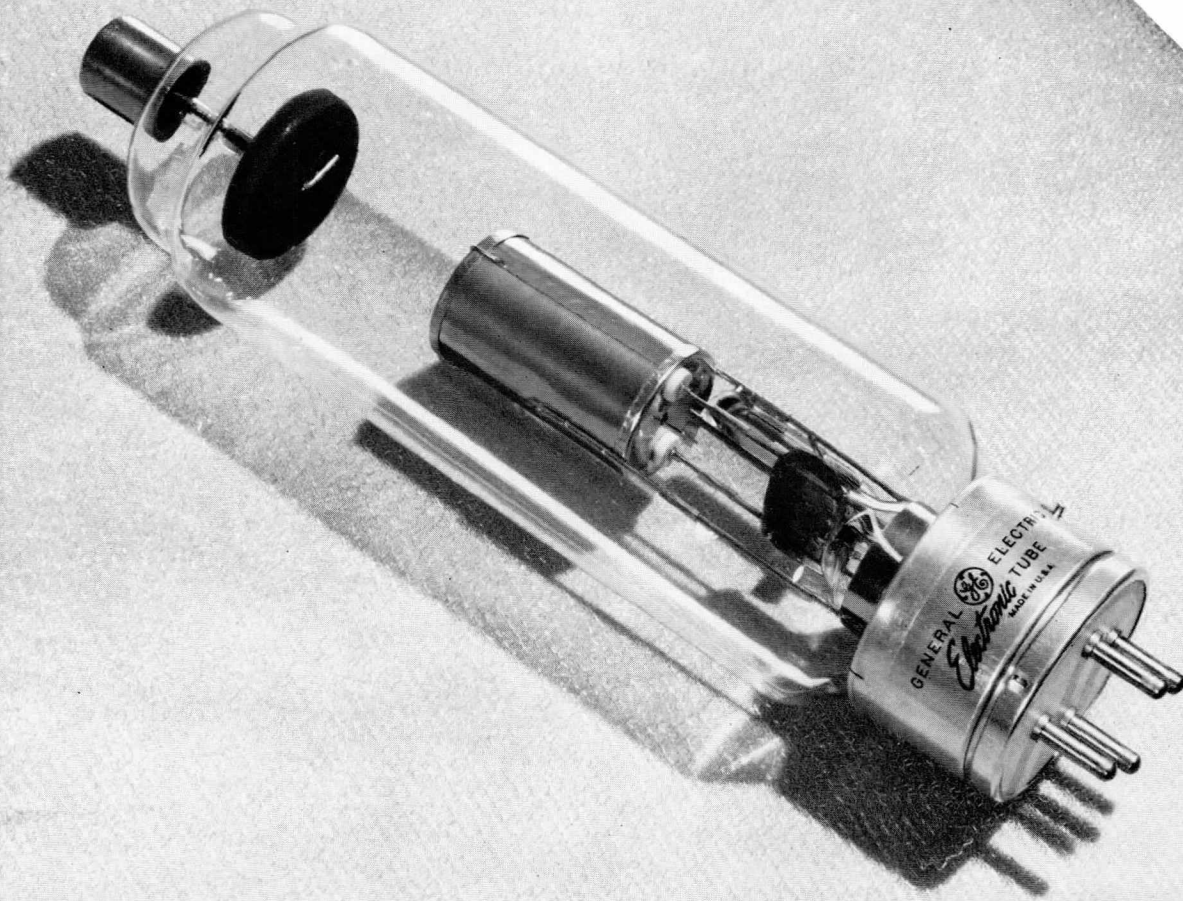




PHANOTRON

DESCRIPTION

The GL-5561/FG-104 is a half-wave, mercury-vapor rectifier for converting alternating current to direct current. It is suitable for applications where rectification of higher currents at lower frequencies and voltages is desired than is possible with high-vacuum

tubes. In comparison with high-vacuum tubes, the GL-5561/FG-104 has a low and constant voltage drop which is an advantage in low-voltage rectifier applications since it allows more efficient utilization of power and results in lower circuit losses.

TECHNICAL INFORMATION

These data are for reference only. For design information refer to specifications.

GENERAL CHARACTERISTICS

Number of electrodes.....	2			
Electrical	Minimum	Bogey	Maximum	
Heater voltage	4.75	5.0	5.25	volts
Heater current		10.0	10.75	amperes
Cathode heating time required	300			seconds
Anode voltage drop, typical		15		volts
Critical anode voltage			50	volts
Mechanical Data				
Type of cooling—convection				
Mounting position—vertical, base-down				
Net weight, maximum			1	pound


Electronic
TUBE

GENERAL  ELECTRIC

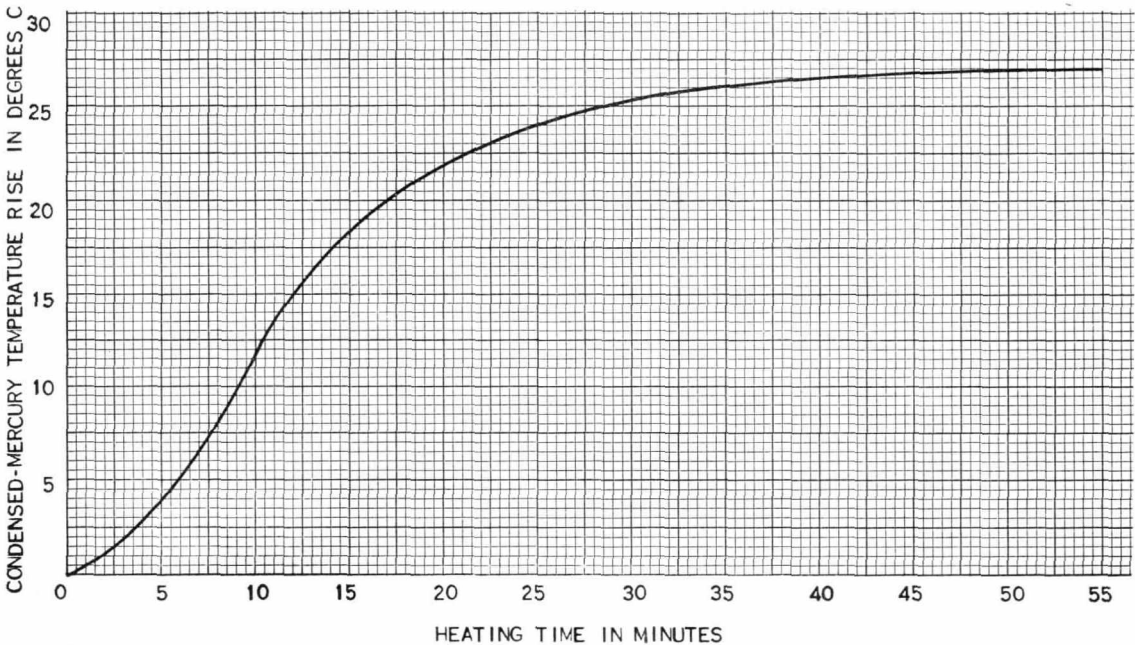
Supersedes ETI-148B dated 4-48

TECHNICAL INFORMATION (CONT'D)

MAXIMUM RATINGS

	Continuous Service	Welder-Control Service
Maximum peak inverse anode voltage.....	3000	10,000 volts
Maximum anode current		
Instantaneous.....	40	16 amperes
Average anode current.....	6.4	4 amperes
Surge anode current, for design only.....	400	160 amperes
Duration of surge current.....	0.1	0.1 second
Maximum time of averaging current.....	15	15 seconds
Temperature limits, condensed mercury.....	+40 to +80	+25 to +50 centigrade

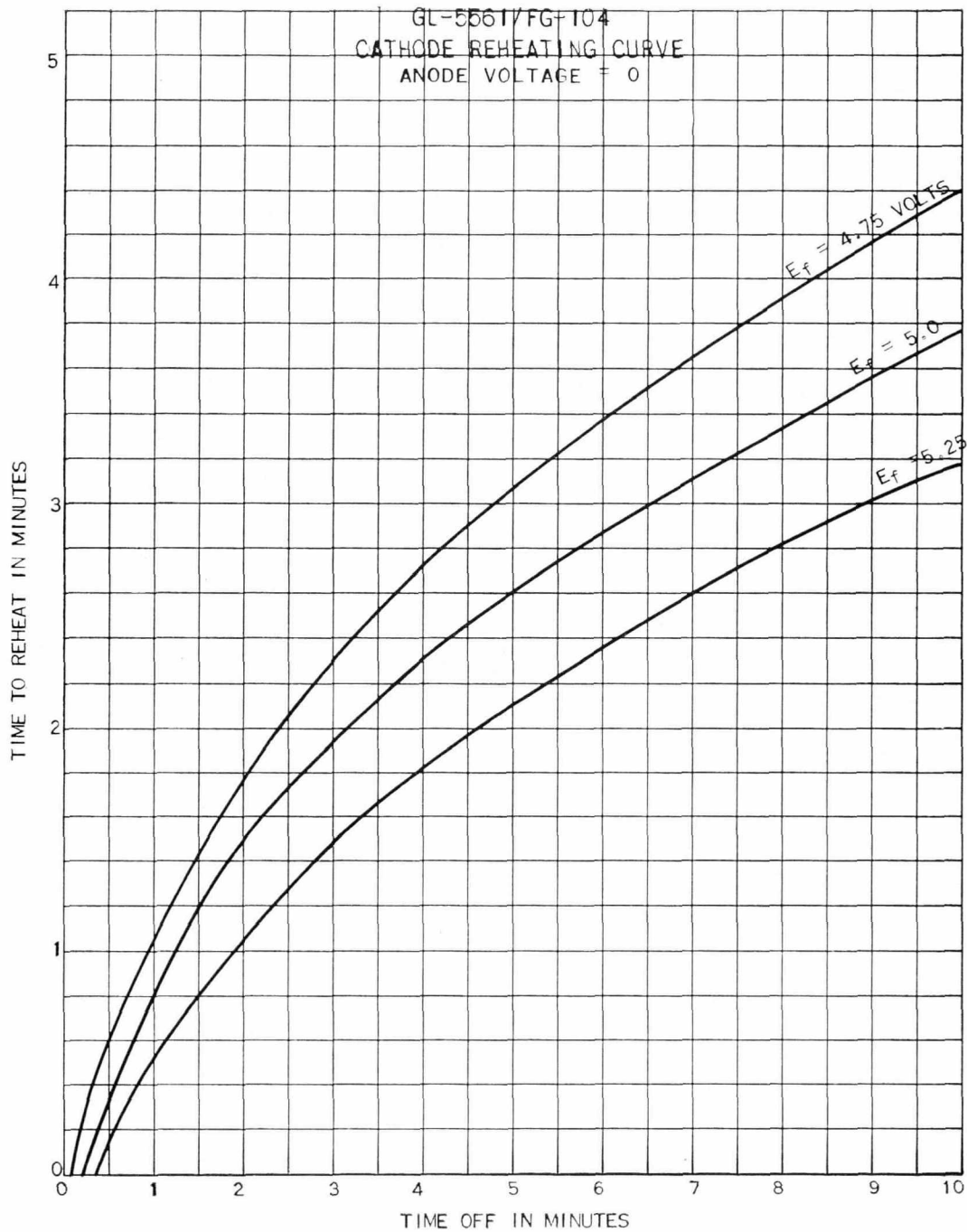
GL-5561/FG-104
RATE OF RISE OF CONDENSED-
MERCURY TEMPERATURE ABOVE AMBIENT

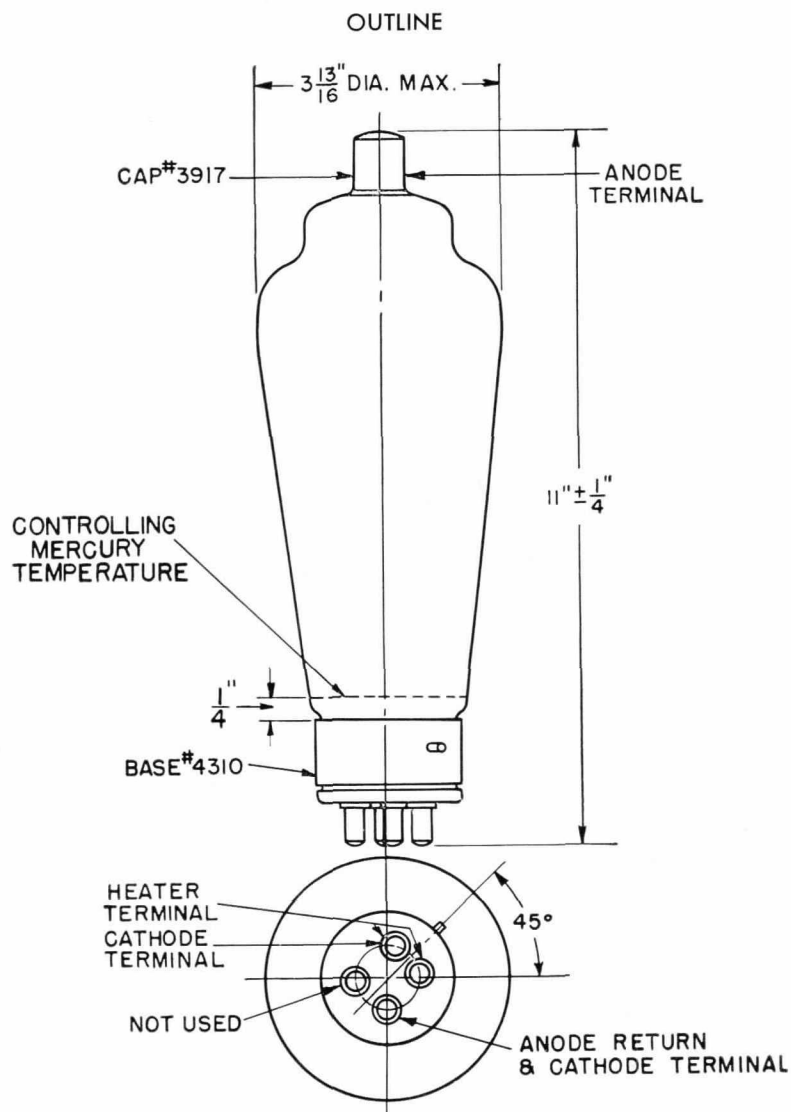


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◆CATHODE REHEATING CURVE
ANODE VOLTAGE = 0





K-4955993

8-5-44

Tube Department

GENERAL ELECTRIC

Schenectady, N. Y.