

## TWIN-DIODE

### DESCRIPTION

The GL-5726 is a miniature double-diode designed for dependable operation under conditions encountered in mobile and aircraft service. The heaters for the two diode units are internally con-

nected in series so that a heater failure makes both units inoperative and are designed to minimize the possibility of failure under severe intermittent on-off operation.

### TECHNICAL INFORMATION

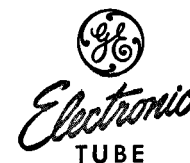
#### GENERAL

##### Electrical Data

Cathode—indirectly heated	
Heater voltage . . . . .	6.3 volts
Heater current . . . . .	0.30 ampere
Direct interelectrode capacitances	
Plate to cathode (Section No. 1)* . . . . .	3.2 uuf
Plate to cathode (Section No. 2)* . . . . .	3.2 uuf
Cathode to plate (Section No. 1)§ . . . . .	3.9 uuf
Cathode to plate (Section No. 2)§ . . . . .	3.9 uuf
Plate (Section No. 1) to plate (Section No. 2)△ . . . . .	0.026 max uuf

##### Mechanical Data

- Mounting position—any
- Envelope—T-5½ glass
- Base—Miniature button 7-pin, E7-1



**GENERAL  ELECTRIC**

Supersedes ETX-257 dated 5-50

**TECHNICAL INFORMATION (CONT'D)**

**MAXIMUM RATINGS** Design Center Values

Peak inverse plate voltage.....	330 volts
Peak plate current, per plate.....	54 milliamperes
D-c output current, per plate.....	9 milliamperes
D-c heater-cathode voltage.....	330 volts

**Typical Operation**

Half-wave rectifier †	
A-c plate voltage, per plate (RMS).....	117 volts
Minimum total effective plate supply impedance, per plate.....	300 ohms
D-c output current, per plate.....	9 milliamperes
Heater cycles of intermittent operation ‡, minimum.....	5000 cycles

\*With JETEC Shield No. 313 connected to heater, internal shield, and cathode of unit under test.

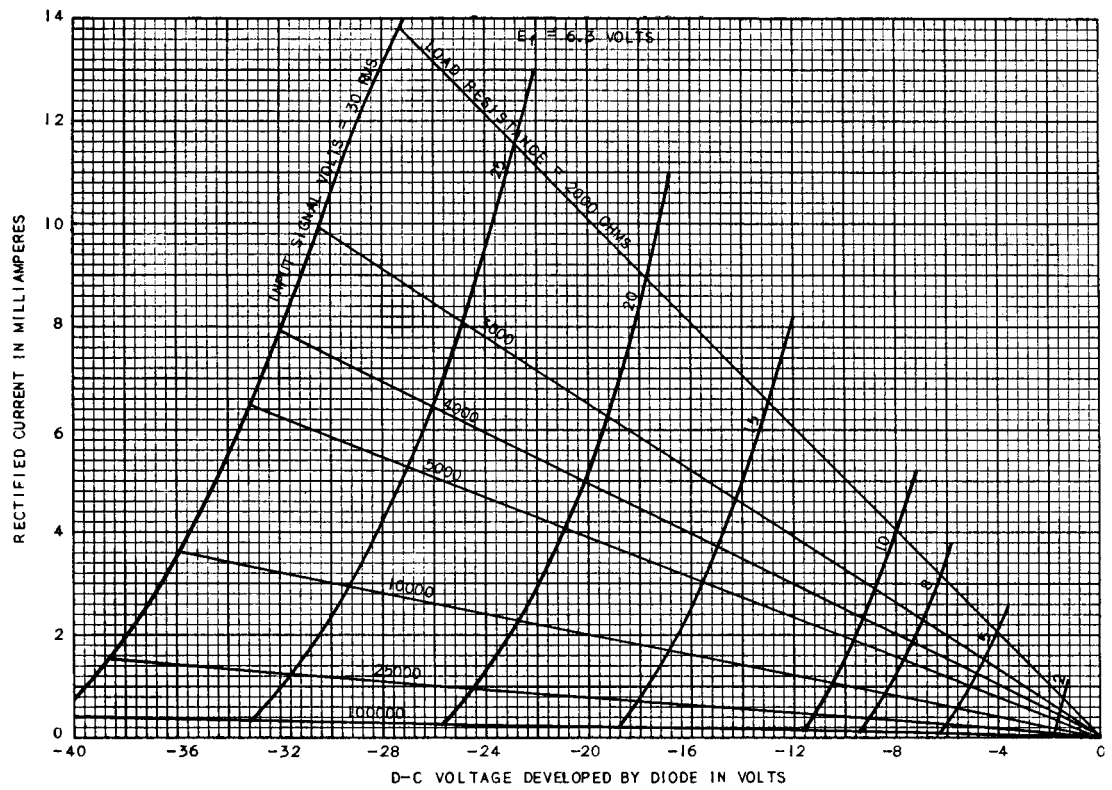
§With JETEC Shield No. 313 connected to heater, internal shield, and plate of unit under test.

△With JETEC Shield No. 313 connected to ground.

†In half-wave service the two units can be used separately or in parallel.

‡The 5726 heater is designed to withstand at least 5000 cycles of intermittent operation at 7.5 volts.

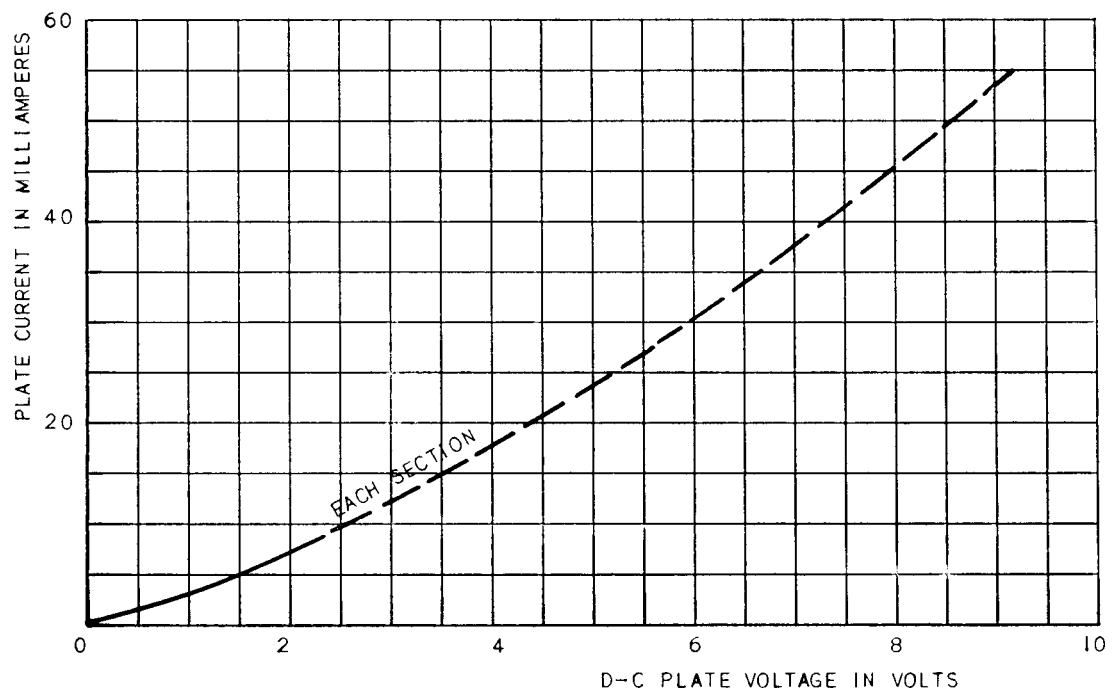
GL-5726  
 OPERATION CHARACTERISTICS  
 HALF-WAVE EACH SECTION  
 $E_f = 6.3$  VOLTS



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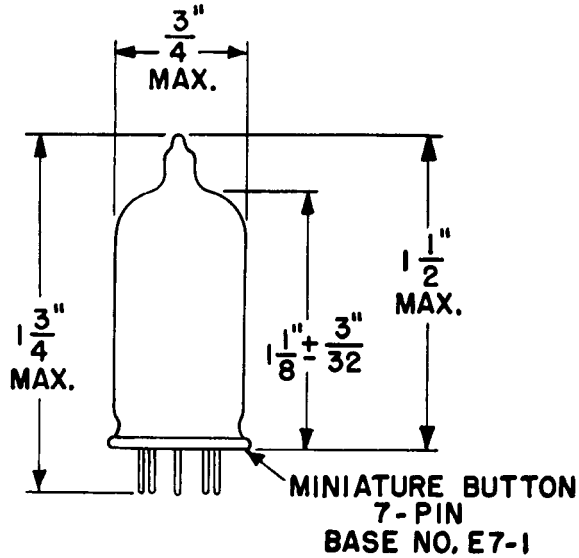
GL-5726  
 AVERAGE PLATE CHARACTERISTICS  
 $E_f = 6.3$  VOLTS



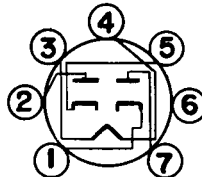
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OUTLINE  
GL-5726



**BASING DIAGRAM**



**6BT**

- PIN 1: CATHODE (SECTION NO.1)
- PIN 2: PLATE (SECTION NO.2)
- PIN 3: HEATER
- PIN 4: HEATER
- PIN 5: CATHODE (SECTION NO.2)
- PIN 6: INTERNAL SHIELD
- PIN 7: PLATE (SECTION NO.1)

N-15169AZ

2-10-50

Tube Department

**GENERAL  ELECTRIC**

Schenectady, N. Y.