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 connected 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

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
$E_r = 6.3$ VOLTS

RECTIFIED CURRENT IN MILLIAMPERES

D-C VOLTAGE DEVELOPED BY DIODE IN VOLTS

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

PLATE CURRENT IN MILLIAMPERES

D-C PLATE VOLTAGE IN VOLTS
GL-5726
MINIATURE BUTTON
7-PIN
BASE NO. E7-1

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)

Tube Department
GENERAL ELECTRIC
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