**8013-A**

**HALF-WAVE VACUUM RECTIFIER**

**GENERAL DATA**

**Electrical:**
Filament, Thoriated Tungsten:

- **Voltage**: Min. 2.37, Av. 2.50, Max. 2.63 ac volts
- **Current at 2.50 volts**: Min. 4.7, Av. 5.0, Max. 5.3 amp

**Mechanical:**
- **Mounting Position**: Any, preferably vertical with base down
- **Maximum Overall Length**: 6-1/16" ± 5/32"
- **Seated Length**: 5-9/32"
- **Maximum Diameter**: 2-1/16"
- **Weight (Approx.)**: 2.9 oz
- **Bulb**: ST-16
- **Cap**: Skirted Medium with Rolled Edge (JETEC No. C1-19)
- **Base**: Medium-Shell Small 4-Pin (JETEC No. A4-9)
- **Basing Designation for BOTTOM VIEW**: 4P

**Pin 1 - Filament**
**Pin 2 - No Connection**
**Pin 3 - No Connection**
**Pin 4 - Filament**
**Cap - Plate**

**HALF-WAVE RECTIFIER**

**Maximum Ratings, Absolute Values:**

**PEAK PLATE VOLTAGE:**
- **Forward**: 40000 max. volts
- **Inverse**: 40000 max. volts

**PLATE CURRENT:**
- **Peak**: 150 max. ma
- **Average**: 20 max. ma
- **Fault**: 500 max. ma
- **PLATE DISSIPATION**: 12 max. watts

**OPERATING CONSIDERATIONS**

*Filament and plate voltage may be applied simultaneously to the 8013-A.*

The bulb of the 8013-A should be cleaned regularly. Accumulation of dust or other foreign matter on the bulb will cause leakage and, as a result, probably tube failure.

*X-rays are produced during normal operation of the 8013-A.* These rays can constitute a health hazard unless the tube is adequately shielded for X-ray radiation. Although relatively simple shielding should prove adequate, make sure it provides the required protection to the operator.

*This value may be increased to 55000 volts when the 8013-A is immersed in oil.*

Indicates a change.

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TUBE DIVISION
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