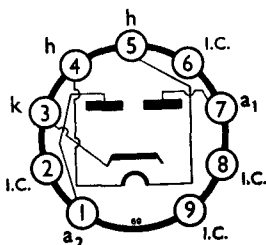




**MINIATURE  
BI-PHASE HALF WAVE RECTIFIER  
6.3V INDIRECTLY HEATED**

**U709**  
OCTOBER, 1953

**BASE CONNECTIONS AND VALVE DIMENSIONS**



View from underside  
of base.

Base : B9A  
Bulb : Tubular

Overall length : 67.5 max. mm.  
Seated length : 60.5 max. mm.  
Max. diameter : 22.2 max. mm.

**RATING**

|             |          |    |
|-------------|----------|----|
| $V_h$       | 6.3      | V  |
| $I_h$       | 0.95     | A  |
| $V_{h-k}$   | 450 max. | V  |
| PIV         | 1 max.   | kV |
| $V_a$ (rms) | 350 max. | V  |
| $I_{out}$   | 150 max. | mA |
| $i_a$ (pk)  | 450 max. | mA |
| $i_a$ (sur) | 1.5 max. | A  |

**TYPICAL OPERATION**

Single valve, Bi-phase half-wave. Capacitor input

|                |      |          |
|----------------|------|----------|
| $V_a$ (rms)    | 350  | V        |
| PIV            | 1000 | V        |
| $V_{out}$      | 340  | V        |
| $I_{out}$      | 150  | mA       |
| $i_a$ (pk)     | 450  | mA       |
| $i_a$ (sur)    | 1.5  | A        |
| $I_{ph}$ (rms) | 157  | mA       |
| C              | 8    | $\mu F$  |
| $R_{source}$   | 270  | $\Omega$ |
| Vripple        | 10   | %        |

**SWITCHING**

Direct

**MOUNTING**

Any position.

**RETAINING**

A retaining device should be used.

**VENTILATION**

Free air circulation is preferable. The temperature of the hottest part of the bulb must not exceed 220°C.

