

## CONCENTRATED-ARC LAMP TYPE 300 AC

This 300-watt Concentrated-Arc Lamp, Type 300 AC, is designed for operation from alternating current and for applications requiring a light source of high brilliance and small size. It will also operate on direct current.

### AVERAGE CHARACTERISTICS

#### Operating from A. C.

Current through lamp .....	12.5 amps.
Candlepower .....	275 cp.
Diameter of light source .....	110 in.
Brilliance of light source .....	52 candles per sq. mm.
	29,000 candles per sq. in.

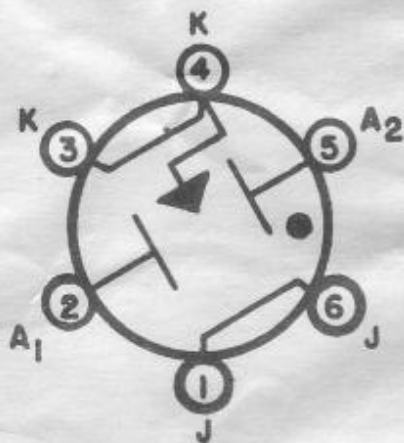
#### Operating from D. C.

Current through lamp .....	15 amps
Candlepower .....	275 cp.
Diameter of light source .....	2.94 mm.
Brilliance of light source .....	52 candles per sq. mm.

### INSTALLATION AND APPLICATION

The type 300 AC lamp fits a standard six-pin radio tube socket and may be installed to burn in any position. The bulb becomes hot during continuous operation and requires adequate ventilation to prevent overheating.

The type 300 AC has a negative volt-ampere characteristic, so must be provided with suitable ballast, the impedance of which will depend upon the supply voltage. It is recommended that a voltage of at least 40 volts per anode be used with sufficient impedance in each anode lead to limit the cathode current to 15 amperes. The lamp requires a momentary starting potential of 2000 volts or higher.



This device uses the inventions of patents under which Sylvania Electric Products Inc. is licensed. The patent numbers will be supplied upon request.

#### *Bottom View of Socket*

#### *Connections*

A - Anode

K - Cathode

● - Gas Filled

J-J - Jumper

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