DESCRIPTION

The GL-2051 is a small, double-grid, inert-gas-filled thyatron designed for grid-control rectifier service. The control characteristic is independent of ambient temperature over a wide range. The tube is not appreciably affected by line-voltage surges because of the low grid-to-anode capacitance. High sensitivity, the result of low grid current which allows the use of high resistance in the grid circuit, permits operation of the GL-2051 thyatron from a vacuum type phototube.

RECOMMENDED FOR REPLACEMENT ONLY

TECHNICAL INFORMATION

These data are for reference only. For design information refer to specifications.

GENERAL CHARACTERISTICS

Number of electrodes........................................... 4

Electrical
Cathode—Indirectly heated type
Voltage......................................................... 6.3 volts
Current, approx.............................................. 0.6 ampere
Heating time, minimum................................. 10 seconds
Peak voltage drop, approx......................... 14 volts
Grid resistor* 
Minimum.................................................. 0.01 megohm
Maximum.................................................. 10 megohms
Anode to control-grid capacitance, approx........ 0.2 micromicrofarad

*When this tube is operated with an alternating anode voltage and a high value of grid-circuit resistance, the grid-anode capacitance should be made as small as possible by placing the grid resistor directly at the socket terminal, by connecting pins 4 and 8 together at the socket, and by using a close fitting bulb shield connected to the cathode terminal.
TECHNICAL INFORMATION (CONT'D)

Mechanical
Net weight, approx. ........................................... 2 ounces
Shipping weight, approx. .................................... 3 pounds
Operating position ............................................ Vertical or horizontal

MAXIMUM RATINGS
Maximum peak anode voltage
Inverse .................................................................... 700 volts
Forward ................................................................... 350 volts
Shield-grid voltage .............................................. 0 volts
Maximum anode current
Instantaneous ..................................................... 375 milliamperes
Average .............................................................. 75 milliamperes
Maximum time of averaging current .................... 30 seconds

GL-2051
TYPICAL CONTROL CHARACTERISTICS
SHARED AREA SHOWS RANGE OF CHARACTERISTICS
SHIELD GRID CONNECTED TO CATHODE
SMALL-SHELL OCTAL 8-PIN BASE

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<tr>
<th>PIN</th>
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