

GL-6855

THYRATRON

TRIODE TYPE

QUICK-HEATING CATHODE

NEGATIVE CONTROL CHARACTERISTICS

INERT-GAS AND MERCURY-VAPOR TYPE

DESCRIPTION AND RATING

The GL-6855 is a three-electrode inert-gas and mercury-vapor thyatron with negative control characteristics for use in all control applications. The GL-6855 combines the desirable temperature characteristic of gas tubes, maximum ratings over a wide temperature range, with the long life of mercury tubes. Another feature useful in industrial applications is a quick-heating filamentary-type cathode - only 15 seconds is required for the cathode to reach operating temperature.

TECHNICAL INFORMATION

GENERAL

Electrical

Cathode - Filamentary

Filament Voltage.	2.5	Volts
Filament Current at 2.5 Volts	6.3 ± 0.8	Amperes
Heating Time.	15	Seconds

Anode to Control-Grid Capacitance	3	uuf
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Deionization Time, approximate.	1000	Microseconds
Ionization Time, approximate.	10	Microseconds
Anode Voltage Drop.	8	Volts
Critical Grid Current	10	Microamperes

Control Characteristics

Anode Voltage	100	500	1250	Volts
Grid Voltage	-1.5	-3.5	-5.2	Volts

Mechanical

Mounting Position - Vertical, Base Down

Equilibrium Condensed-Mercury Temperature

Rise Above Ambient	30	
Net Weight, maximum	3	Ounces

MAXIMUM RATINGS, Absolute Values

Maximum Peak Anode Voltage

Inverse	1250	Volts
Forward	1250	Volts

MAXIMUM RATINGS, Absolute Values (Cont'd)

Maximum Cathode Current		
Peak.	8.0	Amperes
Average	1.0	Amperes
Maximum Averaging Time.	5	Seconds
Fault	80	Amperes
Maximum Duration.	0.1	Seconds
Maximum Negative Control-Grid Voltage		
Before Conduction	500	Volts
During Conduction	10	Volts
Condensed Mercury Temperature Limits.	-40 to +80	C

OUTLINE-GL-6855

