

OA2WA
OA3
OA3A
OA4G

Refer to chart at end of section.
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 Refer to chart at end of section.

OB2
 INDUSTRIAL
 TYPE

VOLTAGE REGULATOR

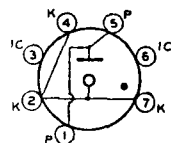
Miniature type cold-cathode, glow-discharge tube used in voltage regulator applications. Outlines section, 5D; requires miniature 7-contact socket.

MAXIMUM RATINGS (Absolute-Maximum Values)

Average Starting Current♦	75	mA
DC Cathode Current	30	mA
Frequency	0	Hz
Ambient-Temperature Range	-55 to +90	°C

MAXIMUM CIRCUIT VALUES

Shunt Capacitor	0.1	μF
Series Resistor	See Operating Considerations	



5B0

CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

	Min.	Av.	Max.	
DC Anode-Supply Voltage	133■	—	—	volts
Anode Breakdown Voltage	—	115	133*	volts
Anode Voltage Drop	101●	108	114*	volts
Regulation (5 to 30 mA)	—	1	4*	volts

♦ Averaged over starting period not exceeding 10 seconds. This starting period must be followed by a steady-state operating condition of at least 20 minutes, or tube performance will be impaired.

■ Not less than indicated supply voltage should be provided to insure "starting" throughout tube life.

* Maximum individual tube value during useful life.

● Minimum individual tube value during useful life.

Operating Considerations

Refer to type OA2.

OB2WA
OC2

Refer to chart at end of section.

Refer to chart at end of section.

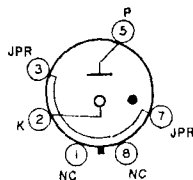
OC3
 INDUSTRIAL
 TYPE

VOLTAGE REGULATOR

Glass octal type cold-cathode, glow-discharge tube used in voltage regulator applications. Outlines section, 22; requires octal socket.

MAXIMUM RATINGS (Absolute-Maximum Values)

Average Starting Current♦	100	mA
DC Cathode Current	40	mA
Frequency	0	Hz
Ambient-Temperature Range	-55 to +90	°C



4AJ

MAXIMUM CIRCUIT VALUES

Shunt Capacitor	0.1	μ F
Series Resistor	See Operating Considerations	

CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

	Min.	Av.	Max.	
DC Anode-Supply Voltage	133 $\blacksquare$	—	—	volts
Anode Breakdown Voltage	—	115	133*	volts
Anode Voltage Drop	103 $\bullet$	108	116*	volts
Regulation (5 to 40 mA)	—	2	4*	volts

♦ Averaged over starting period not exceeding 10 seconds. This starting period must be followed by a steady-state operating condition of at least 20 minutes, or tube performance will be impaired.

■ Not less than indicated supply voltage should be provided to insure "starting" throughout tube life.

* Maximum individual tube value during useful life.

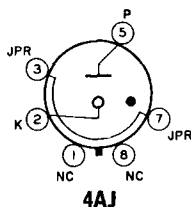
• Minimum individual tube value during useful life.

Operating Considerations

Refer to type OA2. For circuit diagrams refer to next page.

Refer to chart at end of section.

OC3A



VOLTAGE REGULATOR

OD3
INDUSTRIAL
TYPE

Glass octal type cold-cathode, glow-discharge tube used in voltage regulator applications. Outlines section, 22; requires octal socket.

MAXIMUM RATINGS (Absolute-Maximum Values)

Average Starting Current ♦	100	mA
DC Cathode Current	40	mA
Frequency	5 min.	Hz
Ambient-Temperature Range	0	°C
	—55 to +90	

MAXIMUM CIRCUIT VALUES

Shunt Capacitor	0.1	μ F
Series Resistor	See Operating Considerations	

CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

	Min.	Av.	Max.	
DC Anode-Supply Voltage	185 $\blacksquare$	—	—	volts
Anode Breakdown Voltage	—	160	185*	volts
Anode Voltage Drop	142 $\bullet$	153	165*	volts
Regulation (5 to 40 mA)	—	4	5.5*	volts

♦ Averaged over starting period not exceeding 10 seconds. This starting period must be followed by a steady-state operating condition of at least 20 minutes, or tube performance will be impaired.

■ Not less than indicated supply voltage should be provided to insure "starting" throughout tube life.

* Maximum individual tube value during useful life.

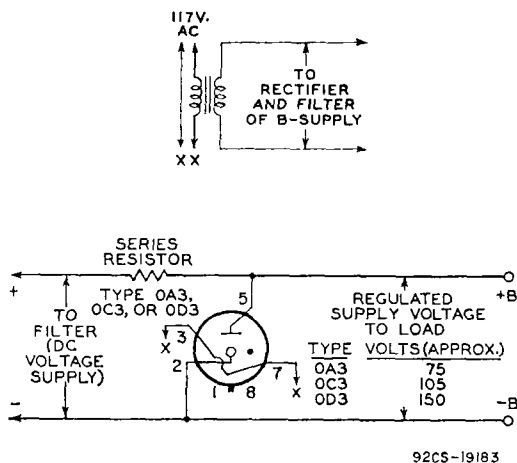
• Minimum individual tube value during useful life.

Operating Considerations

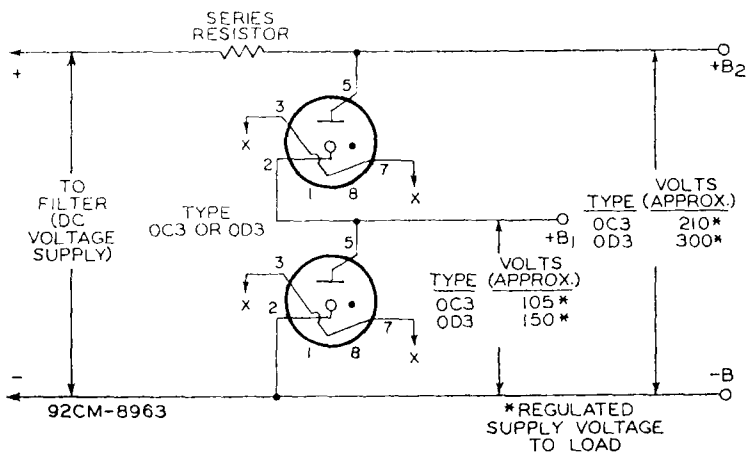
Refer to type OA2. For circuit diagrams refer to next page.

Refer to chart at end of section.

OD3A



Typical circuit to provide regulated supply voltage of approximately 75, 105, or 150 volts to load. Removal of tube from socket removes voltage from load.



Typical circuit using two OC3's, or two OD3's to provide regulated supply voltages of approximately 210 or 300 volts and 105 or 150 volts to load. Socket connections are so made that voltage on load is removed when either tube is taken from its socket.