

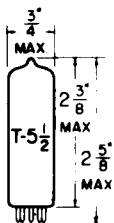
## TUNG-SOL

## VOLTAGE-REGULATOR

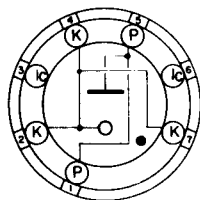
MINIATURE TYPE

COLD CATHODE

ANY OPERATING POSITION



GLASS BULB



BOTTOM VIEW

SMALL-BUTTON MINIATURE  
7 PIN BASE

580

THE OC2 IS A COLD-CATHODE, GLOW-DISCHARGE VOLTAGE REGULATOR IN THE 7-PIN MINIATURE CONSTRUCTION. IT IS INTENDED FOR USE IN VOLTAGE REGULATOR APPLICATIONS IN WHICH A RELATIVELY CONSTANT DC OUTPUT VOLTAGE IS REQUIRED ACROSS A LOAD, INDEPENDENT OF MODERATE LINE-VOLTAGE VARIATIONS.

## RATINGS

MAXIMUM AND MINIMUM <sup>A</sup>

VOLTAGE-REGULATOR SERVICE

MAXIMUM AVERAGE STARTING CURRENT <sup>B</sup>	75	MA.
MAXIMUM DC CATHODE CURRENT	30	MA.
MINIMUM DC CATHODE CURRENT	5	MA.
MAXIMUM FREQUENCY	0	CPS.
AMBIENT TEMPERATURE RANGE	-55 to + 90	°C
MAXIMUM CIRCUIT VALUES:		
SHUNT CAPACITANCE	0.1	μf

<sup>A</sup> ABSOLUTE VALUES.

## CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

	MIN.	AVG.	MAX.	
DC ANODE-SUPPLY VOLTAGE	C	---	---	VOLTS
ANODE BREAKDOWN VOLTAGE:				
UNDER TOTAL DARKNESS	---	---	145 <sup>D</sup>	VOLTS
UNDER NORMAL AMBIENT LIGHT CONDITIONS	---	105	115 <sup>D</sup>	VOLTS
ANODE VOLTAGE DROP	68 <sup>E</sup>	75	83	VOLTS
REGULATION (5 TO 30 MA.)	---	3	4.5	VOLTS

<sup>B</sup> 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.

<sup>C</sup> THE MINIMUM VALUE TO INSURE "STARTING" THROUGHOUT TUBE LIFE MUST BE EQUAL TO THE ANODE BREAK-DOWN VOLTAGE PLUS THE VOLTAGE DROP ACROSS THE SERIES RESISTOR AT THE MAXIMUM VALUE OF THE LOAD CURRENT.

<sup>D</sup> MAXIMUM INDIVIDUAL TUBE VALUE DURING USEFUL LIFE. <sup>E</sup> MIN. INDIVIDUAL TUBE VALUE DURING USEFUL LIFE.