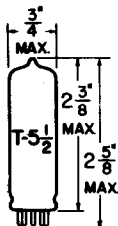


## TUNG-SOL

## HALF-WAVE VACUUM RECTIFIER

MINIATURE TYPE



GLASS BULB

SMALL-BUTTON MINIATURE  
7 PIN BASE E7-1  
OUTLINE DRAWING  
JEDEC 5-3

UNIPOTENTIAL CATHODE

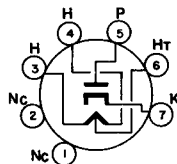
HEATER NOMINAL

36 VOLTS 32 VOLTS

0.10±.006 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

BASING DIAGRAM  
JEDEC 5BQ

THE 36AM3A IS A HALF-WAVE VACUUM RECTIFIER IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR USE IN AC/DC RECEIVERS. FEATURES OF THE TUBE ARE A LOW TUBE-VOLTAGE DROP AND A 100-MILLIAMPERE HEATER.

## RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

## HALF-WAVE RECTIFIER

HEATER CURRENT <sup>A</sup>	0.10±.006	AMP.
HEATER VOLTAGE (ENTIRE HEATER - PINS 3 & 4 )	36	VOLTS
HEATER VOLTAGE (TAP-SECTION PINS 3 & 6 )	32	VOLTS
MAXIMUM PEAK INVERSE PLATE VOLTAGE	365	VOLTS
MAXIMUM PEAK PLATE CURRENT	530	MA.
MAXIMUM DC OUTPUT CURRENT	82	MA.
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE	350	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	200 <sup>B</sup>	VOLTS

## TYPICAL OPERATION IN ACCOMPANYING HALF-WAVE CIRCUIT

## CAPACITOR-INPUT FILTER

AC PLATE-SUPPLY VOLTAGE, RMS	120	VOLTS
FILTER-INPUT CAPACITOR	40	$\mu f$
TOTAL EFFECTIVE PLATE-SUPPLY RESISTANCE	A	OHMS
DC OUTPUT CURRENT	75	MA.
DC OUTPUT VOLTAGE AT INPUT TO FILTER (APPROX.)	118	VOLTS
TUBE VOLTAGE DROP FOR PLATE MA. = 150	16	VOLTS

<sup>A</sup>THE HEATER OF THE 36AM3A IS DESIGNED SO THAT THE HEATER SECTION BETWEEN PIN 4 & 6 IS USED AS A LIMITING RESISTANCE IN THE RECTIFIER PLATE CIRCUIT. (SEE TYPICAL HALF-WAVE CIRCUIT).

THIS TYPE IS NOT DESIGNED FOR USE WITH A PANEL LAMP WHERE THE HEATER SECTION BETWEEN PINS 4 & 6 IS USED AS A PANEL-LAMP SHUNT.

<sup>B</sup>THE DC COMPONENT MUST NOT EXCEED 100 VOLTS.

CONTINUED ON FOLLOWING PAGE

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TYPICAL HALF-WAVE CIRCUIT

