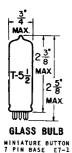
TUNG-SOL -

RECTIFIER

MINIATURE TYPE



OUTLINE DRAWING JEDEC 5-3 COATED UNIPOTENTIAL CATHODE

HEATER

36 VOLTS^A 32 VOLTS^B, c 0.10 AMP.

ANY MOUNTING POSITION

A_{PINS} 3 AND 4 B_{PINS} 3 AND 6



BOTTOM VIEW

BASING DIAGRAM JEDEC 5BQ

THE 36AM3B IS A HALF-WAVE RECTIFIER IN THE 7 PIN MINIATURE CONSTRUCTION. FEATURES OF THE TUBE ARE A 100 MA. HEATER WITH 20 SECOND WARM-UP TIME. IT HAS A HEATER TAP SECTION (PINS 4 & 6) THAT MAY BE USED AS A LIMIT-ING RESISTANCE IN THE RECTIFIER PLATE CIRCUIT OR AS A PANEL LAMP SHUNT.

RATINGS INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

HEATER VOLTAGE (PINS 3 & 4)	36	VOLTS
HEATER VOLTAGE (PINS 3 & 6)	32	VOLTS
HEATER CURRENT (PINS 3 & 6)D	.100±.006	AMP -
MAXIMUM INVERSE VOLTAGE	365	VOLTS
MAXIMUM STEADY STATE PEAK PLATE CURRENT	580	MA.
MAXIMUM VOLTAGE (RMS) OF PANEL LAMP SECTION	500	
WHEN PANEL LAMP FAILS	10	VOLTS
MAXIMUM DC OUTPUT CURRENT	10	*OL15
WITHOUT PANEL LAMP PER CIRCUIT 1	82	MA.
WITH PANLE LAMP PER CIRCUIT 2 AND	OZ.	mA •
NO SHUNTING RESISTOR	68	MA.
WITH PANEL LAMP PER CIRCUIT 2 AND	00	MA .
SHUNTING RESISTOR	82	MA.
MAXIMUM HEATER-CATHODE VOLTAGE:	02	MA.
HEATER NEGATIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	350	VOLTC
HEATER POSITIVE WITH RESPECT TO CATHODE	590	VOLTS
DC	100	
TOTAL DC AND PEAK		VOLTS
	200	VOLTS
HEATER WARM-UP TIME (PINS 3 & 4)E	20	SECONDS

AVERAGE CHARACTERISTICS

TUBE VOLTAGE DROP WITH PLATE CURRENT = 150 MA. 16 VOLTS

CONTINUED ON FOLLOWING PAGE

TUNG-SOL -

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATION

HALF-WAVE RECTIFIER - CAPACITOR INPUT TO FILTER

WITH PANEL LAMP CM8-54 - CIRCUIT 2

HEATER TAP VOLTAGE (PINS 4 & 6) AC PLATE SUPPLY VOLTAGE, RMS EFFECTIVE PLATE SUPPLY	3.7 120	4.0 120	4.0 120	4.0 120	4.0 120	VOLTS VOLTS
RESISTANCE (APPROX.)	20	20	20	20	20	CHMS
PANEL LAMP SHUNTING RESISTOR	0	470	200	130	100	OHMS
DC OUTPUT CURRENT	50	60	-65	_70	75	MA.
DC OUTPUT VOLTAGE AT FILTER INPUT	129	125	124	122	120	VOL TS

TAP SECTION AS LIMITING RESISTANCE

WITHOUT PANEL LAMP - CIRCUIT 1

AC PLATE SUPPLY VOLTAGE EFFECTIVE PLATE SUPPLY RESISTANCE	120 (NOTE G)	120 (NOTE G)	VOLTS
FILTER INPUT CAPACITOR DC OUTPUT CURRENT	40 60	40 75	μf MA
DC OUTPUT VOLTAGE AT FILTER INPUT	122	113	VOLTS

C FOR SERIES OPERATION OF HEATERS, EQUIPMENT SHOULD BE DESIGNED THAT AT NORMAL SUPPLY VOLTAGE BOGEY TUBES WILL OPERATE AT THIS VALUE OF HEATER CURRENT.

DHEATER VOLTAGE SUPPLY VARIATIONS SHALL BE RESTRICTED TO MAINTAIN HEATER CURRENT WITHIN THE SPECIED VALUES.

EHEATER WARM-UP TIME IS DEFINED AS THE TIME REQUIRED FOR THE VOLTAGE ACROSS THE HEATER TO REACH 80% OF ITS RATED VOLTAGE AFTER APPLYING 4 TIMES RATED HEATER VOLTAGE TO A CIRCUIT CONSISTING OF THE TUBE HEATER IN SERIES WITH A RESISTANCE OF VALUE 3 TIMES THE NOMINAL HEATER OPERATING RESISTANCE.

FIN A SERIES STRING ENTERTAINMENT EQUIPMENT COMPLEMENT WITH 100 MILLIAMPERE HEATER CURRENT TUBES DESIGNED FOR A NOMINAL 120 VOLT AC LINE.

 $G_{\rm IN}$ this mode of operation, with the heater tap section between Pins 4 and 6 in series with the rectifier plate circuit, the resistance of the tap section is approximately 45 ohms.