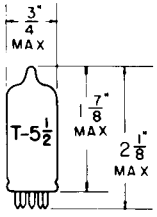
TUNG-SOL

DOUBLE DIODE

MINIATURE TYPE



GLASS BULB

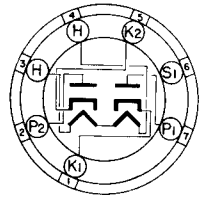
COATED UNIPOTENTIAL CATHODE

HEATER

6.3±10% VOLTS 0.30 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

SMALL BUTTON MINIATURE
7 PIN BASE

6BT

THE 6EB5 IS A DOUBLE DIODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR LOW CURRENT AND HIGH PEAK INVERSE VOLTAGE IN VOLTAGE DOUBLER APPLICATIONS.

DIRECT INTERELECTRODE CAPACITANCES

	WITH[A] SHIELD	WITHOUT SHIELD	
PLATE INPUT: P TO (K+H+I.S.)	2.4	1.7	μμd
CATHODE INPUT: K TO (P+H+I.S.) EACH UNIT	2.8	2.6	μμf
COUPLING: PLATE TO PLATE (1P TO 2P) (MAX.)	0.04	0.10	μμf

RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM[B]

HEATER VOLTAGE	6.3±10%	VOLTS
MAXIMUM PEAK INVERSE PLATE VOLTAGE	550	VOLTS
MAXIMUM STEADY STATE PEAK PLATE CURRENT	40	MA.
MAXIMUM DC OUTPUT CURRENT, EACH PLATE	5.5	MA.
MAXIMUM HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE		
DC	200	VOLTS
TOTAL DC AND PEAK	330	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		
DC	100	VOLTS
TOTAL DC AND PEAK	200	VOLTS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

HEATER VOLTAGE	6.3±10%	VOLTS
HEATER CURRENT	0.30	AMP.
DIODE VOLTAGE DROP WITH DIODE CONDUCTING 11 MA. EACH PLATE (APPROX.)	10	VOLTS

CONTINUED FROM PRECEDING PAGE

NOTES

A. WITH EXTERNAL SHIELD #316 CONNECTED TO PIN 6.

B. DESIGN-MAXIMUM RATINGS ARE LIMITING VALUES OF OPERATING AND ENVIRONMENTAL CONDITIONS APPLICABLE TO A BOGEY ELECTRON DEVICE OF A SPECIFIED TYPE AS DEFINED BY ITS PUBLISHED DATA, AND SHOULD NOT BE EXCEEDED UNDER THE WORST PROBABLE CONDITIONS. THE DEVICE MANUFACTURER CHOOSES THESE VALUES TO PROVIDE ACEPTABLE SERVICEABILITY OF THE DEVICE TAKING RESPONSIBILITY FOR THE EFFECTS OF CHANGES IN OPERATING CONDITIONS DUE TO VARIATIONS IN DEVICE CHARACTERISTICS. THE EQUIPMENT MANUFACTURER SHOULD DESIGN SO THAT INITIALLY AND THROUGHOUT LIFE NO DESIGN-MAXIMUM VALUE FOR THE INTENDED SERVICE IS EXCEEDED WITH A BOGEY DEVICE UNDER THE WORST PROBABLE OPERATING CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT CONTROL ADJUSTMENT, LOAD VARIATION, SIGNAL VARIATION, AND ENVIRONMENTAL CONDITIONS.