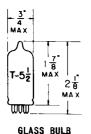
TUNG-SOL -

DOUBLE DIODE

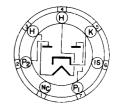
MINIATURE TYPE



COATED UNIOPTENTIAL CATHODE

HEATER
2.1 VOLTS 0.45±6% AMP.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

SMALL-BUTTON MINIATURE 7 PIN BASE 7FL

THE 2EN5 IS A DOUBLE DIODE IN THE 7 PIN MINIATURE CONSTRUCTION AND IS DESIGNED FOR USE AS A PHASE COMPARATOR IN TELEVISION RECEIVERS. THERMAL CHARACTERISTICS OF THE HEATER ARE CONTROLLED SUCH THAT HEATER VOLTAGE SURGES DURING THE WARM-UP CYCLE ARE MINIMIZED PROVIDED IT IS USED WITH OTHER TYPES WHICH ARE SIMILARLY CONTROLLED.

DIRECT INTERELECTRODE CAPACITANCES

	WITHOUT Shield	WITH" SHIELD	
DIODE INPUT: P TO (H+K+1.S.) (EACH UNIT) COUPLING: PLATE TO PLATE 1P TO 2P (MAX.)	3.7 1.3	3.8 3.8	μμ f μμ f
COUPEING. FLATE TO FEATE IF TO ZF (MAX.)	1.5	0.0	pept 1

AEXTERNAL SHIELD #316 CONNECTED TO PIN #6.

RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

HEATER VOLTAGE 2.1 VOLTS MAXIMUM HEATER-CATHODE VOLTAGE: HEATER NEGATIVE WITH RESPECT TO CATHODE 200 TOTAL DC AND PEAK VOLTS HEATER POSITIVE WITH RESPECT TO CATHODE 200 TOTAL DC AND PEAK VOLTS 100 VOLTS 5.0 MAXIMUM DIODE CURRENT FOR CONTINUOUS OPERATION (EA.PLATE) MA. HEATER WARM-UP TIME (APPROX.)* 11.0 SECONDS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

HEATER VOLTAGE	2.1	VOLTS
HEATER CURRENT	0.45±6%	AMP.
DIODE VOLTAGE DROP (APPROX.) FOR Ib= 20 MA. (EA.PLATE)	5.0	VOLTS

*HEATER 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 MEATER IN SERIES WITH A RESISTANCE OF VALUE 3 TIMES THE NOMINAL HEATER OPERATING RESISTANCE.

DESIGN-MAXIMUM RATINGS ARELIMITING VALUES OF OPERATING AND ENVIRONMENTAL CONDITIONS APPLICABLE TO A BOSCY LECTRON 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 ACCEPTABLE SERVICEABILITY OF THE DEVICE, TAKING RESPONSIBILITY FOR THE EFFECTS OF CHANGES IN OPERATING CONDITIONS DUE TO VARIATIONS IN DEVICE CHARACTERISTICS. THE EQUIPMENT MANUFACTURER SHOULD BESIGN 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 COMPONENT VARIATION, EQUIPMENT CONTROL ADJUSTMENT, LOAD VARIATION, SIGNAL VARIATION, AND ENVIRONMENTAL CONDITIONS.