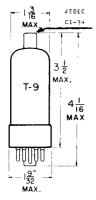
TUNG-SOL -

DIODE



COATED FILAMENT

FOR HIGH VOLTAGE SUPPLY

IN T.V. SERVICE

IC 1 8 IC

ANY MOUNTING POSITION

CONNECTORS SHOULD NOT EXERT MORE THAN 7 POUNDS RADIAL COMPRESSION AT ANY POINT AROUND THE CIRCUMFERENCE OF THE CAP.

BOTTOM VIEW

BASING DIAGRAM JEDEC 3C

SOCKET TERMINALS 1, 3, 4, 5, 6 a 8 MAY BE CONNECTED TO TERMINAL 7 OR TO A CORONA SHIELD WHICH CONNECTS TO TERMINAL 7. TERMINALS 4,66 MAY BE USED AS TIE POINTS FOR COMPONENTS AT OR NEAR FILAMENT POTENTIAL

GLASS BULB SEE NOTE "A" OUTLINE DRAWING JEDEC 9-51 OR 9-52

THE 1B3GT IS A FILAMENTARY DIODE DESIGNED TO OPERATE AT RELATIVELY HIGH INVERSE PEAK VOLTAGES OVER A CONSIDERABLE RANCE OF SUPPLY VOLTAGE FREQUENCIES. IT IS INTENDED TO SUPPLY THE REQUIRED HIGH VOLTAGES FOR THE CATHODE RAY PICTURE TUBE IN TELFVISION SERVICE.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

PLATE TO FILAMENT: (P TO F+1.S.)

1.3 pf

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES -SEE EIA STANDARD RS-239

125 VOLTS

200 MA

AVERAGE CHARACTERISTICS
HEATER SUPPLY LIMITS:

voltage operation $^{\rm B}$ 1.25±0.2 volts current operation (at ef =1.25 v.) 200 ma. Tube drop (approx) with 7 ma. plate current 100 volts

→ MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD, RS-239
FLYBACK VOLTAGE RECTIFIER^C

INVERSE PLATE VOLTAGE:

TOTAL DC AND PEAK 26 KV
DC 22 KV
PEAK PLATE CURRENT 50 MA.
AVERAGE PLATE CURRENT 0.5 MA.

--- INDICATES A CHANGE

CONTINUED ON FOLLOWING PAGE

TUNG-SOL -

MAXIMUM RATINGS - CONTID.

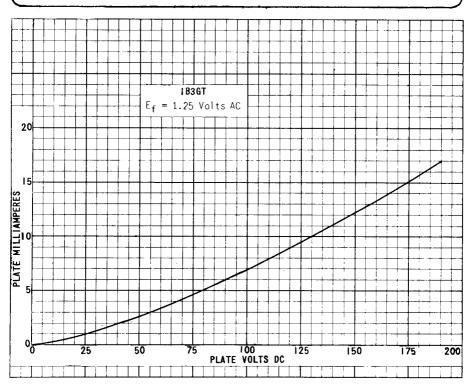
DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239
RF VOLTAGE RECTIFIER

PEAK INVERSE PLATE VOLTAGE	33	ΚV
PEAK PLATE CURRENT	.35	MA.
AVERAGE PLATE CURRENT	1.1	MA.
FREQUENCY OF SUPPLY VOLTAGE (MAX.)	100	KCS
FREQUENCY OF SUPPLY VOLTAGE (MIN.)	1.5	KCS

BOSSION-MAXIMUM PATINGS ARE LIMITING VALUES OF OPERATING AND ENVIRONMENTAL CONDITIONS APPLICANCE TO A BOGEY ELECTRON DEVICE OF A SPECIFIED TYPE AS DEFINED BY ITS PURLISHED 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 DESIGN SO THAT INITIALLY AND INFRODEMOST ITE NO DESIGN-MAXIMUM VALUE FOR THE INTENDED SERVICE IS EXCEEDED WITH A ROCEY DEVICE UNDER THE WORST PROBABLE OPERATING CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT COMPONENT VARIATION,

C.
FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCAST STATIONS: FEDERAL COMMUNICATIONS COMMISSION", THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCRED 15% OF ONE SCANNING CYCLE.

THIS TUBE MAY PRODUCE SOFT X-RAYS WHICH CAN CONSTITUTE A HEALTH HAZAMB UNLESS ADEQUATELY SHIELDED



 $A_{\rm B5-82,86-8},~{\rm B6-60},~{\rm B6-144},~{\rm B7-166},~{\rm B7-211},~{\rm B8-6},~{\rm B8-50},~{\rm OCTAL}~5,~6,~7,~{\rm OR}~{\rm 8-~PIN}$