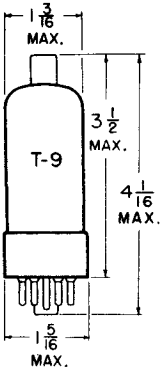
TUNG-SOL

DIODE



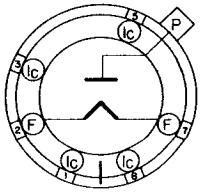
GLASS BULB
SMALL CAP

COATED FILAMENT

FILAMENT
1.25 VOLTS[A] 200 MA.
AC

ANY MOUNTING POSITION

[A] THE FILAMENT VOLTAGE MUST NEVER EXCEED 1.5 VOLTS, EVEN MOMENTARILY.



BOTTOM VIEW
SHORT INTERMEDIATE SHELL
6 PIN OCTAL

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

DIRECT INTERELECTRODE CAPACITANCES - APPROX.
WITH NO EXTERNAL SHIELD

PLATE TO FILAMENT	1.5	μμf

RATINGS
INTERPRETED ACCORDING TO RMA STANDARD M8-210

FILAMENT VOLTAGE	1.25	VOLTS
FILAMENT CURRENT	200	MA.
MAXIMUM PEAK INVERSE PLATE VOLTAGE	40 000	VOLTS
MAXIMUM PEAK PLATE CURRENT	17	MA.
MAXIMUM AVERAGE PLATE CURRENT	2	MA.
MAXIMUM FREQUENCY OF SUPPLY VOLTAGE	300	KC

WHEN THE FILAMENT IS TO BE OPERATED ON RF, IT IS RECOMMENDED THAT THE FILAMENT BE CONNECTED FIRST TO A DC OR LOW-FREQUENCY AC SUPPLY OF 1.25 VOLTS. THE COLOR TEMPERATURE OF THE FILAMENT CORRESPONDING TO THIS VOLTAGE MAY THEN BE CHECKED VISUALLY BY OBSERVING IN A DARKENED ROOM THE REFLECTION OF THE INCANDESCENT FILAMENT UPON THE UPPER SURFACE OF THE INTERNAL SHIELD. A VISUAL COMPARISON OF THIS COLOR TEMPERATURE WITH THAT OBTAINED WITH THE FILAMENT OPERATED FROM AN RF VOLTAGE PROVIDES A CONVENIENT MEANS FOR ADJUSTING THE AMOUNT OF RF EXCITATION TO PRODUCE 1.25 VOLTS (RMS) AT THE FILAMENT TERMINALS.

THE VOLTAGES EMPLOYED IN SOME TELEVISION RECEIVERS AND OTHER HIGH-VOLTAGE EQUIPMENT ARE SUFFICIENTLY HIGH THAT HIGH-VOLTAGE RECTIFIER TUBES MAY PRODUCE SOFT X-RAYS WHICH CAN CONSTITUTE A HEALTH HAZARD, UNLESS SUCH TUBES ARE ADEQUATELY SHIELDED. RELATIVELY SIMPLE SHIELDING SHOULD PROVE ADEQUATE, BUT THE NEED FOR THIS PRECAUTION SHOULD BE CONSIDERED IN EQUIPMENT DESIGN.

PRINTED IN U. S. A.

PLATE 2008
MAY 3 1948

1B3GT

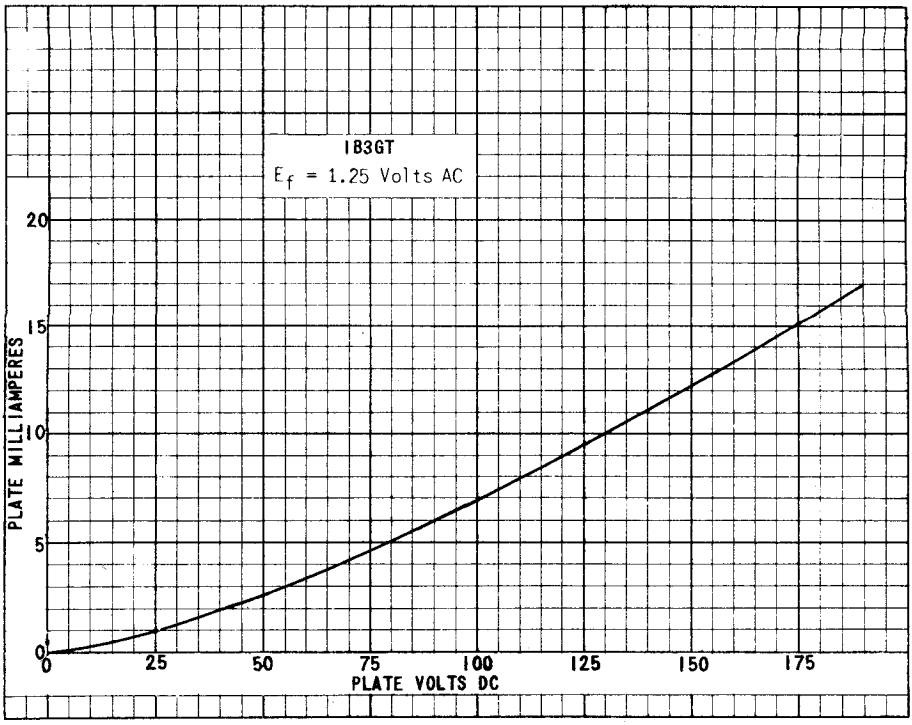


PLATE
2009
MAY 3
1948