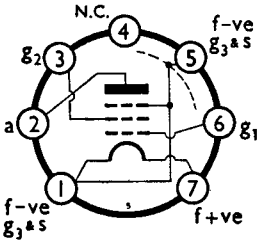




**MINIATURE  
VARIABLE-MU R.F. PENTODE  
1.4V DIRECTLY HEATED**

**W17**  
OCTOBER, 1951

**BASE CONNECTIONS AND VALVE DIMENSIONS**



View from underside of base.

Base : B7G  
Bulb : Tubular.

Overall length : 49—55 mm.  
Seated length : 43—49 mm.  
Max. diameter : 19 mm.

**RATING**

$V_f$	1.4	V
$I_f$	0.05 approx.	A
$V_a$	90 max.	V
$V_{g2}$	67.5 max.	V
$I_k$	5.5 max.	mA
$r_a$	} at $V_a=90, V_{g2}=67.5, V_{g1}=0$	} 0.5 MΩ
$g_m$		

**CAPACITANCES**

$c_{g1-all}$  3.6 pF       $c_a-all$  7.5 pF       $c_a-g1$  0.01 pF

**TYPICAL OPERATION**

$V_a$	45	67.5	90	90	V
$I_a$	1.7	3.4	1.8	3.5	mA
$V_{g2}$	45	67.5	45	67.5	V
$I_{g2}$	0.7	1.5	0.65	1.4	mA
$V_{g1}$	0	0	0	0	V
* $V_{g1}$	-10	-16	-10	-16	V

\*For  $g_m=10 \mu A/V$ .

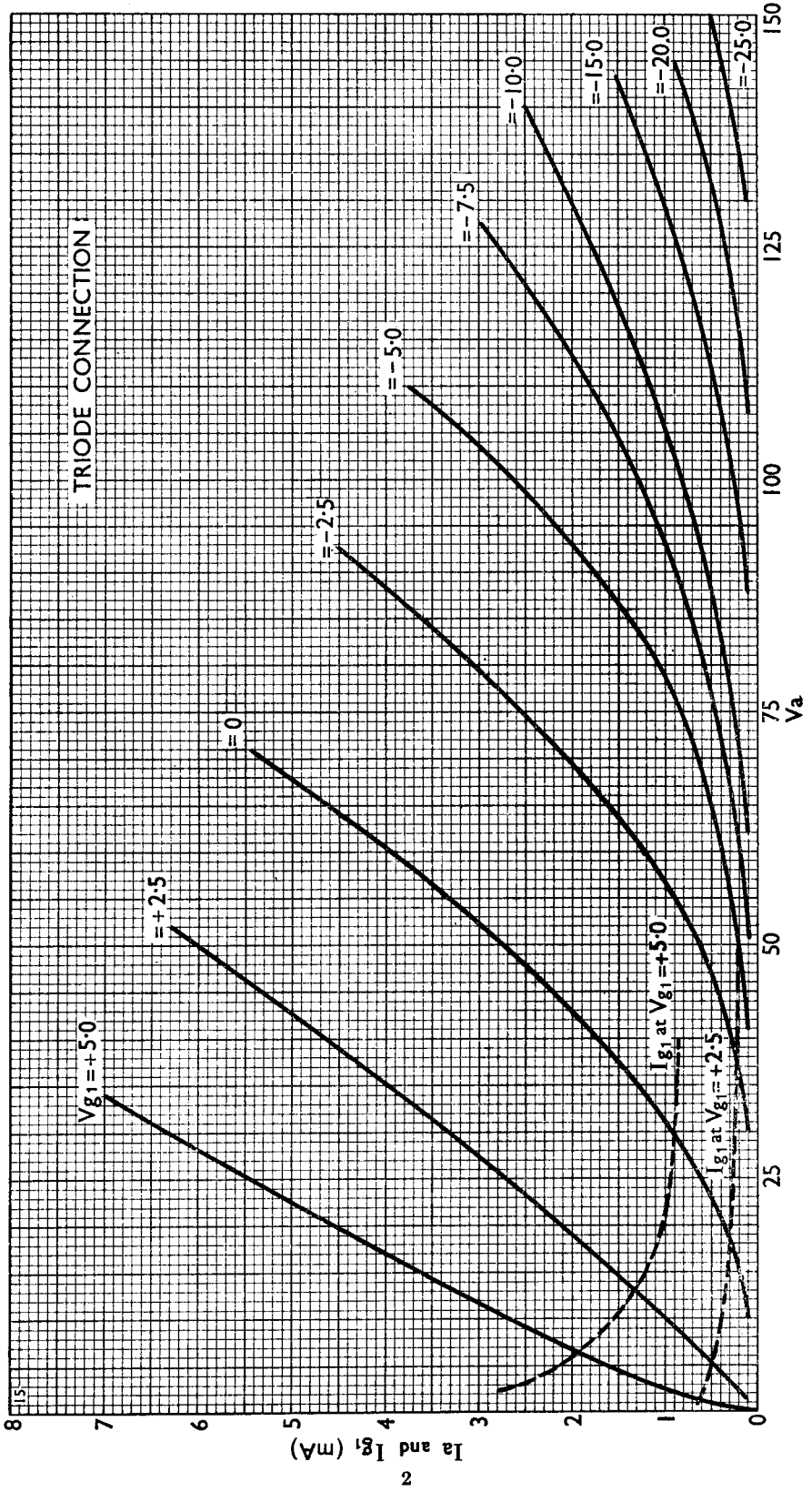
The screen grid may be supplied from a 90 volt source via a series resistor but the screen grid voltage must not exceed 67.5 at zero control grid voltage.

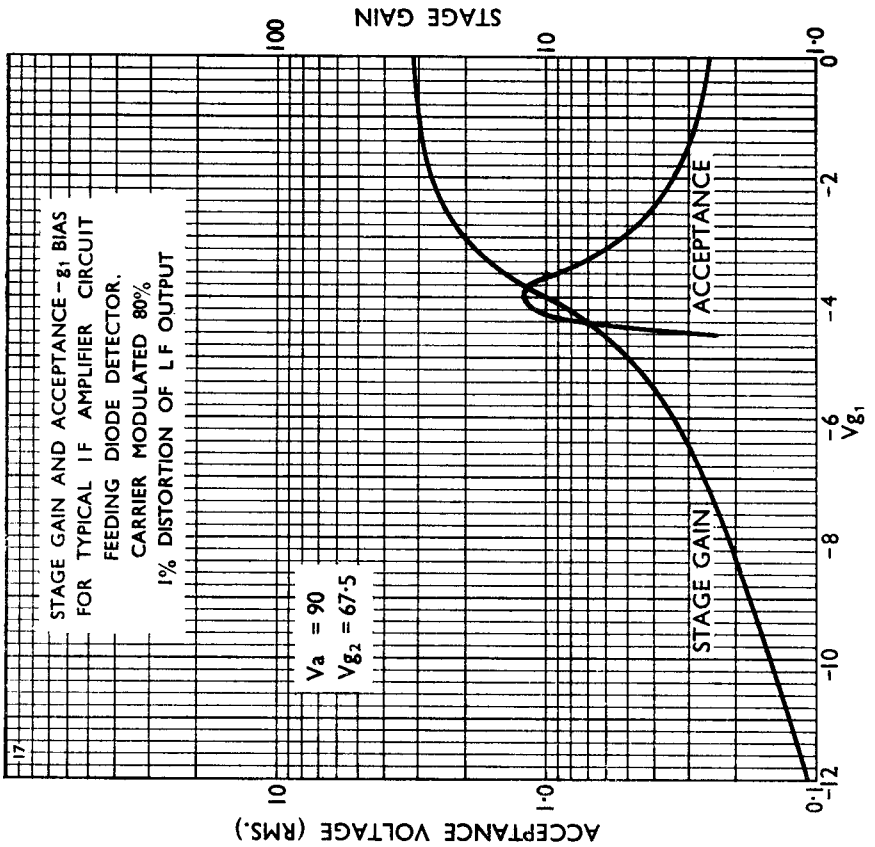
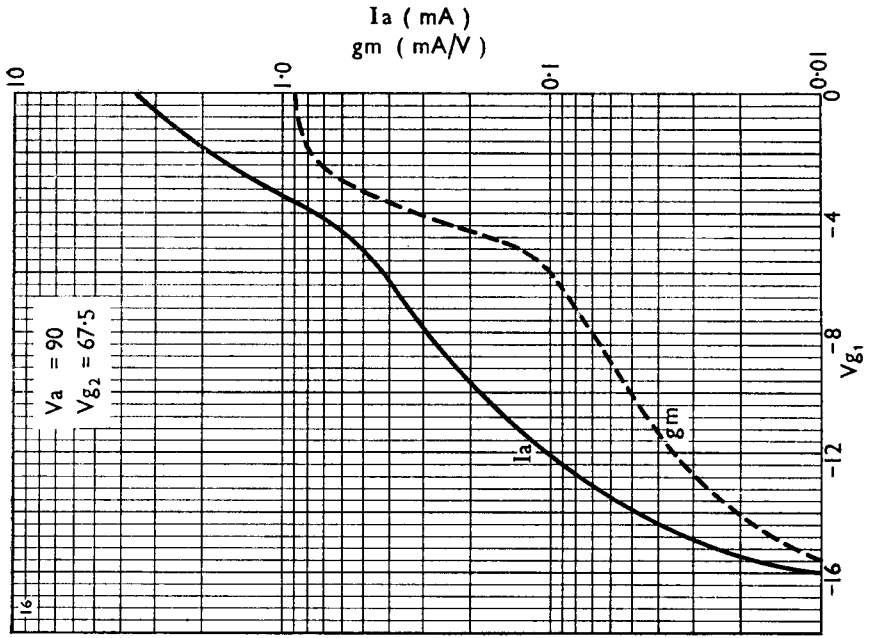
**FILAMENT OPERATION**

When operating the filament from a mains supply, the voltage should be adjusted to 1.3 or the current to 47.5 mA mean. Under certain conditions, a suitable shunt resistor will be required.

**SCREENING**

An internal screen is fitted and is connected to pins 1 and 5.





STAGE GAIN AND ACCEPTANCE - 81 BIAS  
 FOR TYPICAL IF AMPLIFIER CIRCUIT  
 FEEDING DIODE DETECTOR.  
 CARRIER MODULATED 80%  
 1% DISTORTION OF LF OUTPUT

