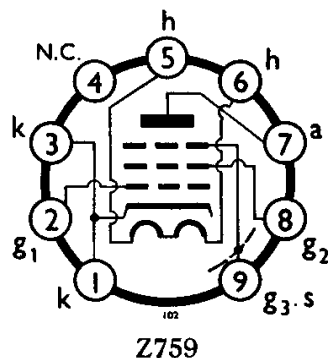


High slope valves primarily designed for use as video and other wideband amplifiers. The Z759 and Z359 are identical except for their heater ratings and base connections.

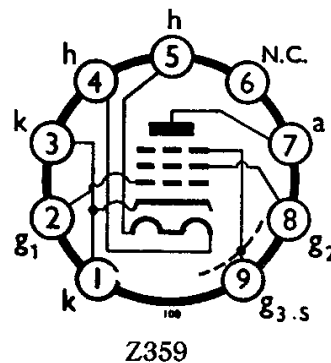
BASE CONNECTIONS AND VALVE DIMENSIONS



Z759

View from underside
of base

Base : B9A
Bulb : tubular
Max. overall length : 55 mm.
Max. seated length : 49 mm.
Max. diameter : 22 mm.



Z359

View from underside
of base

HEATERS

V_h
 I_h

Z759
6.3
0.6

Z359

12.6 (approx) V
0.3 (approx) A

MAXIMUM RATINGS (Absolute)

V_a	300	V
V_{g2}	250	V
P_a	5	W
P_{g2}	1.75	W
P_{a+g2}	5.8	W
I_k	50	mA
$+V_{g1-k}$	0	V
$-V_{g1-k}$	50	V
$v_h-k(pk)$	150	V
R_{g1-k} (fixed bias)	100	k Ω
R_{g1-k} (cathode bias)	500	k Ω
T_{bulb}	250	$^{\circ}C$

CAPACITANCES (of cold screened valve)

C_{g1} —all less a 13 pF C_a —all less g_1 3 pF C_{g1-a} 0.012 pF

CHARACTERISTICS

V_a	250	V
V_{g2}	250	V
I_a	20	mA
I_{g2}	5.5 (approx)	mA
V_{g1}	-2 (approx)	V
g_m	15	mA/V
r_a	500	k Ω
μ_{g1-g2}	60	
* r_{in}	5	k Ω
* $C_{in(w)}$	20	pF

*Measured hot at 45 Mc/s with anode and screen decoupled to cathode.

Z759 Z359

TYPICAL OPERATION

Class A Video Amplifier

V_a	300	300	V
V_{g2}	250	250	V
I_a	20	20	mA
I_{g2}	5.5	5.5	mA
R_a	2.5	2.5	k Ω
* R_k	420	100	Ω
+ V_{g1}	9	—	V
g_m	15	15	mA/V
Voltage gain (approx)	37.5	37.5	—
† Δf (to 3dB) (approx)	8	8	Mc/s

*Suitably decoupled.

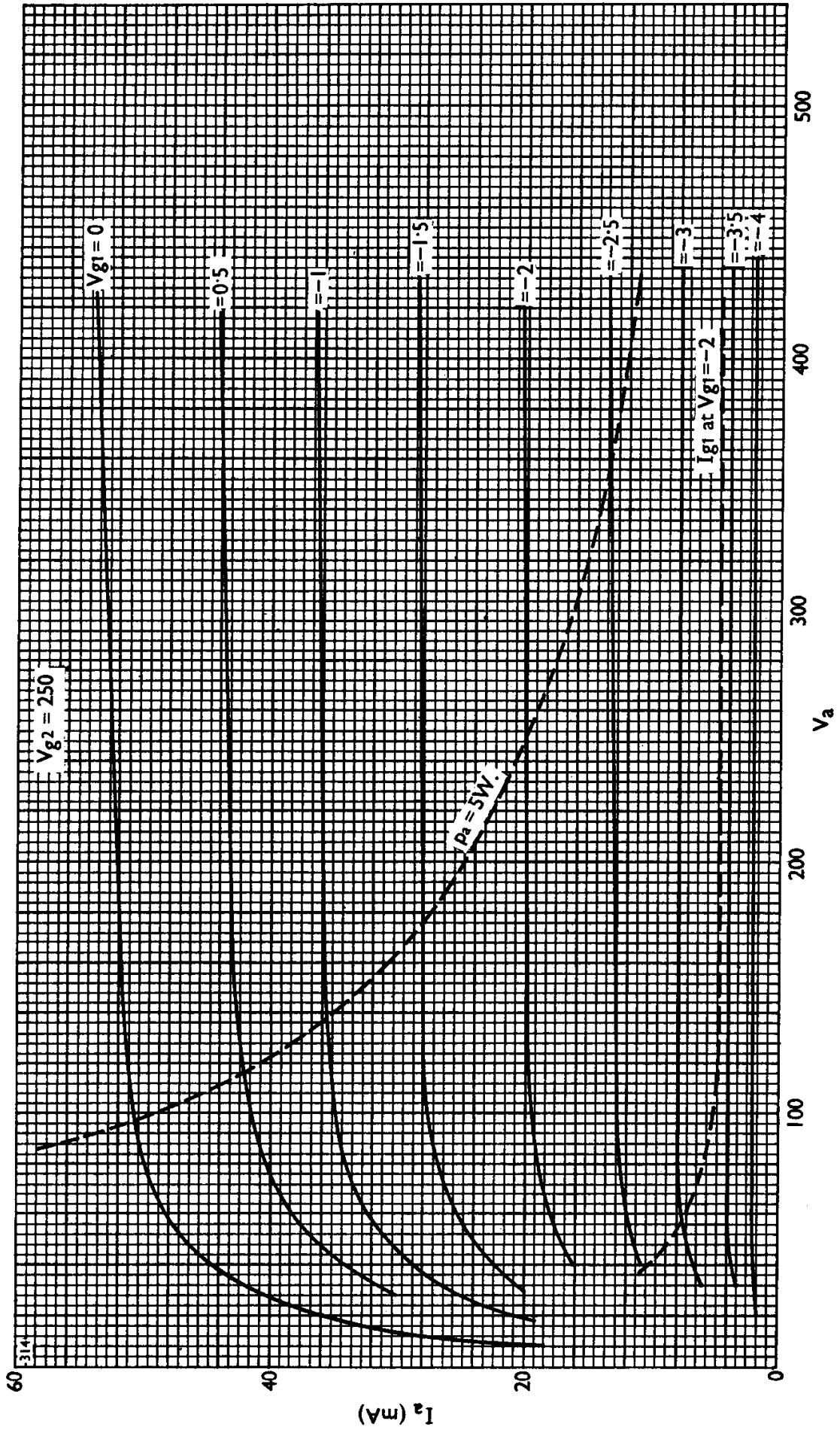
†Working into a total capacitance of 5pF, including strays and using no peaking circuits.

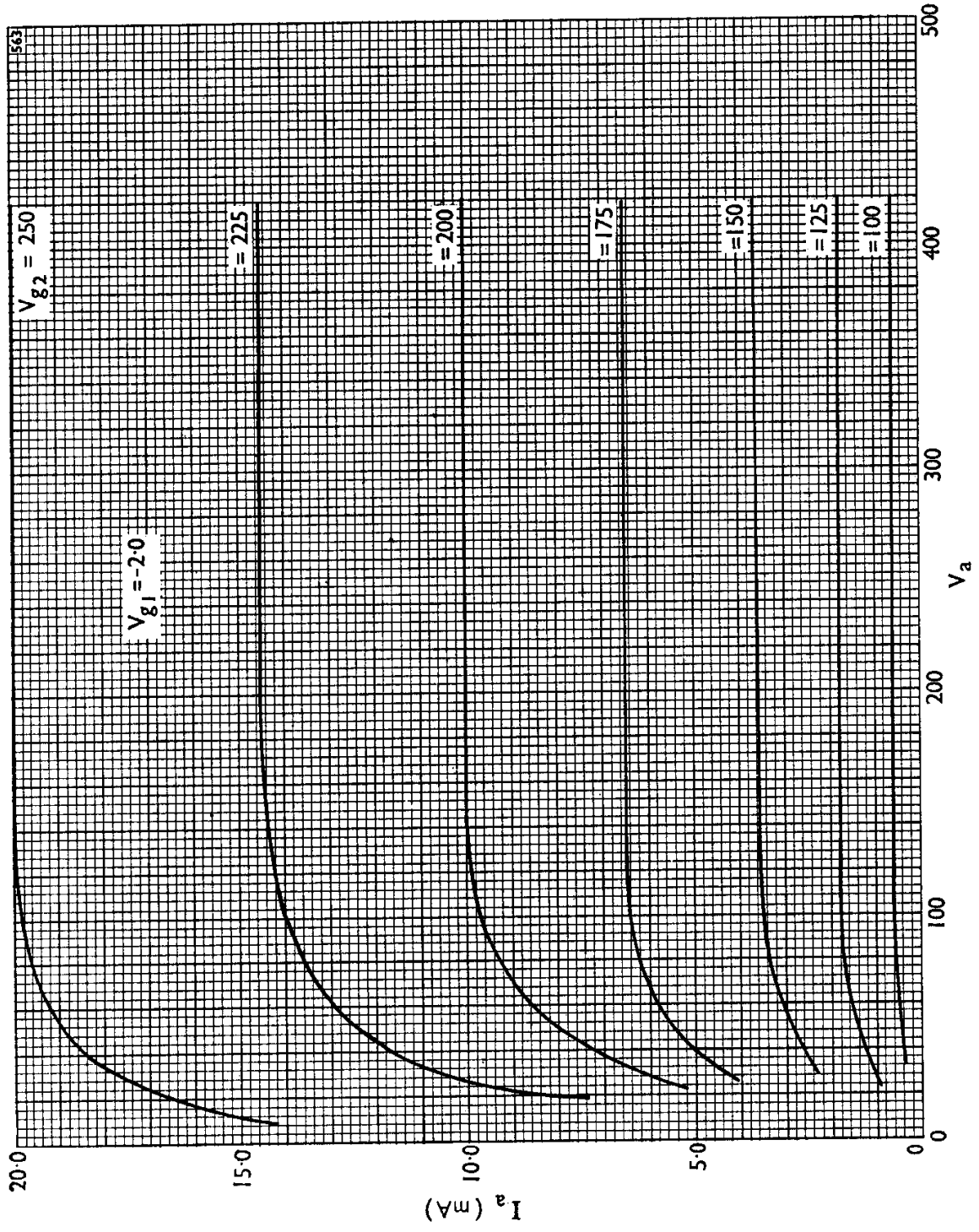
INSTALLATION

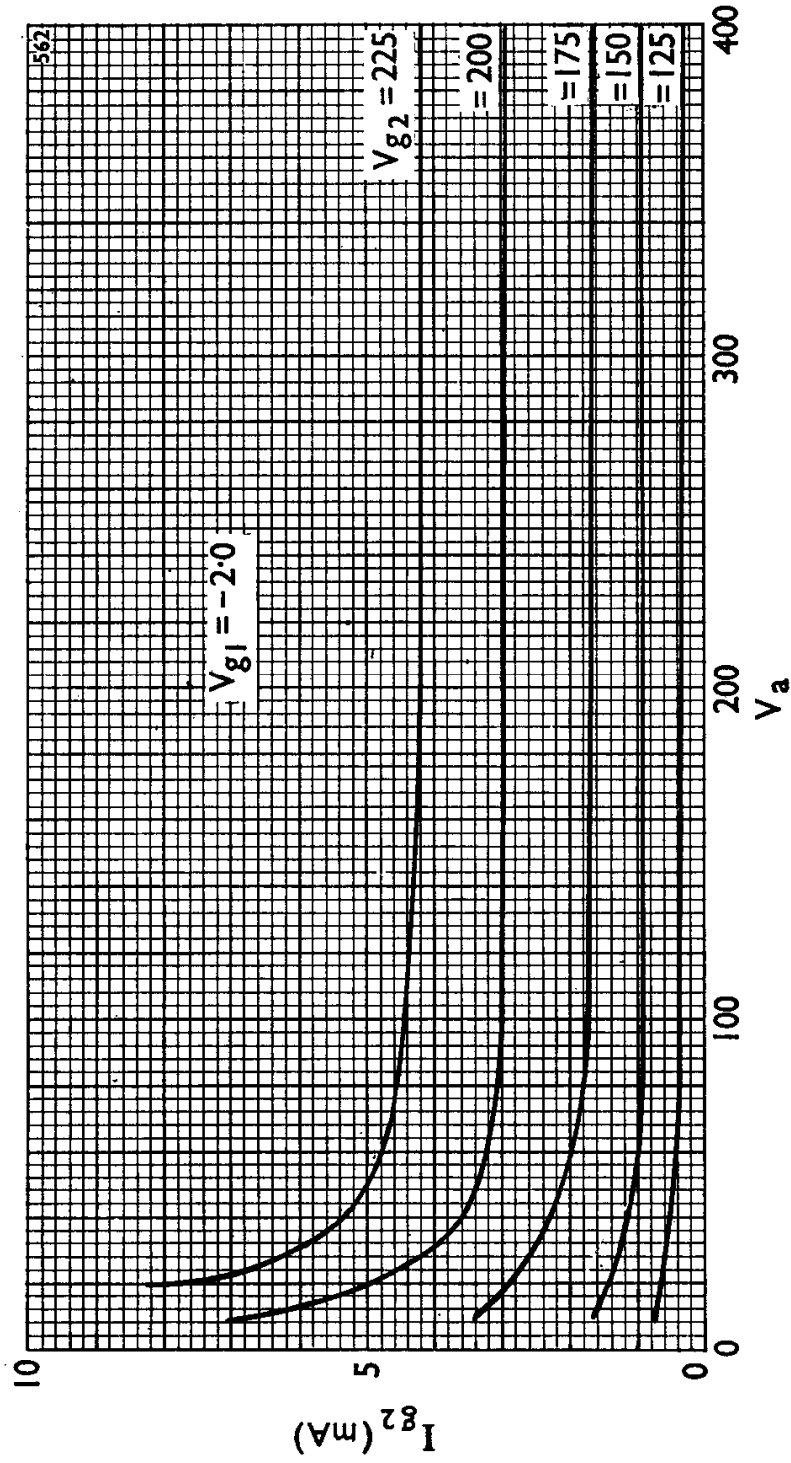
The valve may be mounted in any position.

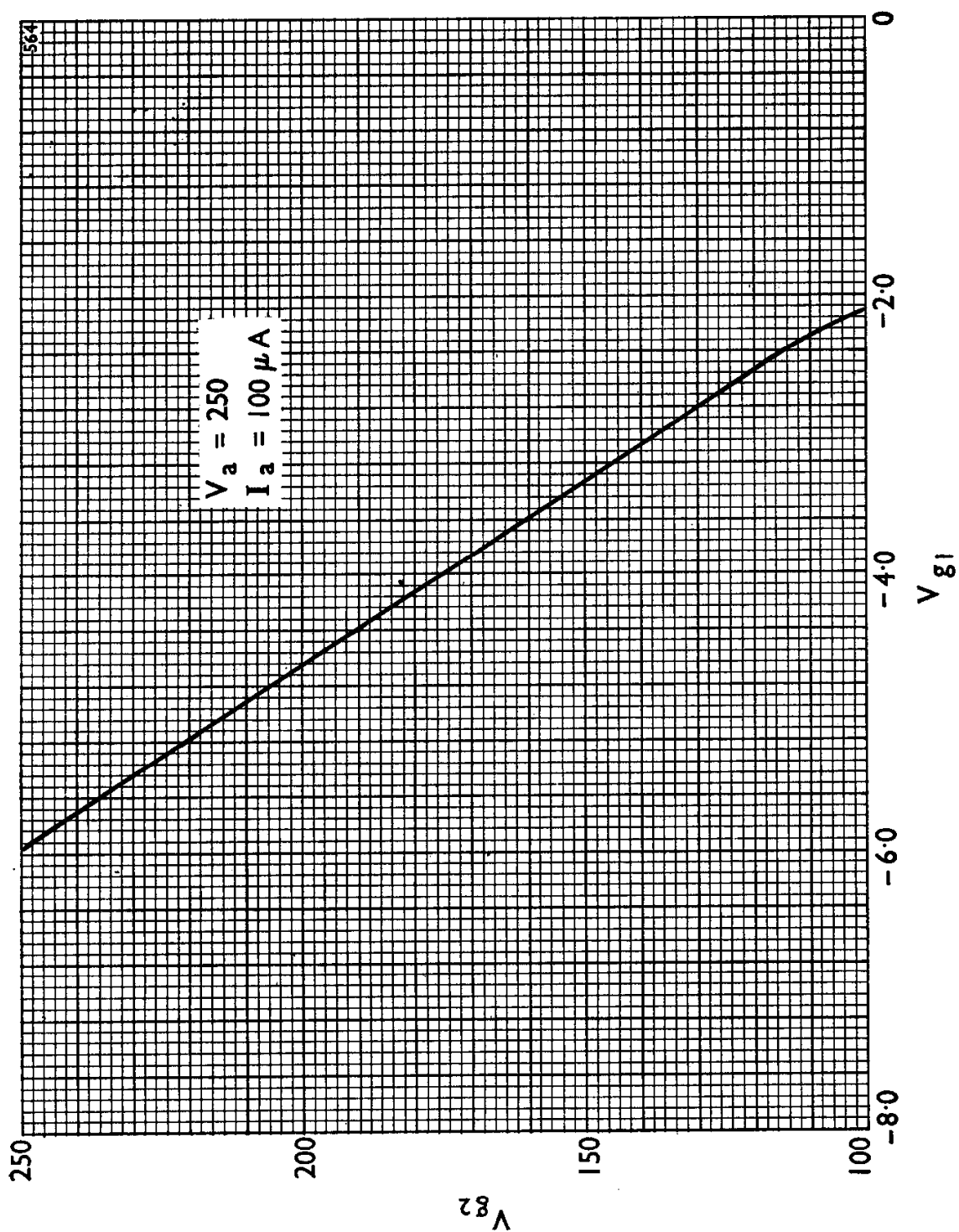
The use of a screening can, which also serves as a retainer, is recommended. It should be blackened inside and out.

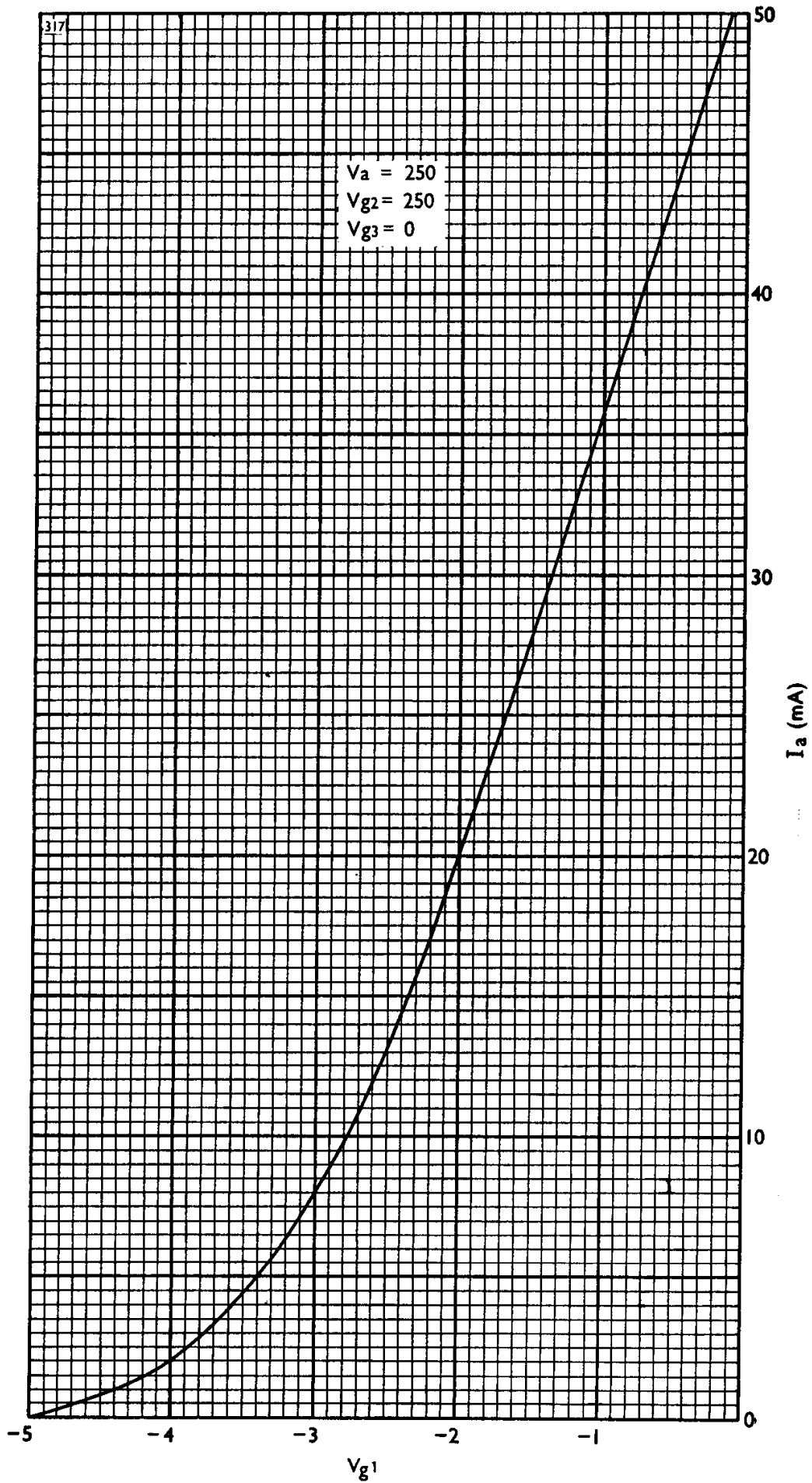
Free air circulation should be provided around the bulb or the outside of the screening can.











Z759 Z359

