

MINISTRY OF SUPPLY - DLRD(A)/TRE

RRE

VALVE ELECTRONIC

CV1856

Specification MOS(A)/CV1856  
Issue 2 Dated 19.8.53  
To be read in conjunction with K1001.

SECURITY  
Specification Valve  
UNCLASSIFIED UNCLASSIFIED

— Indicates a change

TYPE OF VALVE - Full-wave Rectifier  
CATHODE - Directly-heated  
ENVELOPE - Glass - Unmetallised  
PROTOTYPE - 5Y3GT  
R.T.M.A. DESIGNATION - 5Y3GT

MARKING

See K1001/4  
Additional Marking - 5Y3GT  
(See Note B)

BASE  
See K1001/A1/D1  
International Octal  
M Dimension (iv) applies

RATING

Heater Voltage  
Heater Current  
Max. Peak Inverse Voltage  
Max. Peak Current  
Mean Anode Current  
Max. Surge Anode Current

(V) 5.0  
(A) 2.0 <sup>1.8</sup>  
(kV) 1.55  
(mA) 415  
(mA) 140  
(A) 1.4

Note

A  
A  
A

CONNECTIONS

Pin Electrode

1 No connection  
2 Heater  
3 Pin omitted  
4 Anode 2  
5 Pin omitted  
6 Anode 1  
7 Pin omitted  
8 Heater

DIMENSIONS

See K1001/A1/D1

Dimension (mm)	Min.	Max.
A	-	85.5
B	-	33.5

MOUNTING POSITION

Vertical. (See Note C).

NOTES

- A. Absolute maximum values.  
B. In addition to the requirements of K1001/4, the RTMA number shall also be clearly and indelibly marked on the valve.  
C. Horizontal operation permitted if pins 2 and 8 are in horizontal plane.

To be performed in addition to those applicable in K1001

Test Conditions			Test	Limits		No. Tested	Note
				Min.	Max.		
a	Vh	Va	Heater Current (A)	1.6	2.0	100%	
	5.0	0		1.8	2.2		
b	5.0	75 volts DC (max.)	Anode Current (mA)	120	-	100%	1
c	5.0	-	Output Current (mA)	110	-	100%	
Input voltage = 400-0-400V RMS; Frequency = 50 c/s; Load Resistance = 2750 ohms; Reservoir Condenser = 4 $\mu$ F; Effective resistance per anode introduced externally, shall be such that a valve which gives a voltage drop of 60V when passing 125 mA per anode, shall give an output current of 140 mA.							

NOTE

1. Test to be performed on each anode separately.

Amendment No. 1 to  
Specification CV.1856 - Issue 2 dated 19.8.53

Page 1      Ratings

Amend Heater Current (A) 2.0 to read  
Heater Current (A) 1.8.

Page 2.      Test (a)

Amend Heater Current limits to read 1.6 min. and  
2.0 max. instead of 1.8 min. and 2.2 max.

November, 1957.

T.V.C.  
for R.R.E.

N.5792