

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION CV. 7026-30

ISSUE NO. 1 DATED 25.6.1959

AMENDMENT NO. 1

Page 1. DIMENSIONS Delete "see drawing on page 4".  
Insert "K1007/A1/D10".

Page 4 Delete drawing at the bottom of  
this page.

Ministry of Aviation/RRE

March 1962  
(10938)

MINISTRY OF SUPPLY - DLRD/RRE

VALVE ELECTRONIC  
SEMICONDUCTOR DEVICE

CV7026  
-CV7030

Specification MOS/CV7026/27/28/29/30 Issue 1, dated 25th June, 1959. To be read in conjunction with K1007	<u>SECURITY</u>	
	<u>Specification</u>	<u>Device</u>
	UNCLASSIFIED	UNCLASSIFIED

Indicates a change ←

TYPE OF DEVICE - Silicon Power Rectifier CONSTRUCTION - Metal body, wire end leads PROTOTYPE -	<u>MARKING</u>
	CV Number Polarity Markings and if practicable Factory Code & Date Code
	) See K1007/4

<u>RATINGS AND CHARACTERISTICS</u>	<u>DIMENSIONS</u>
<u>All limiting values are absolute</u>	See drawings on page 4

Max. Peak Inverse Voltage, -40°C to +125°C;	CV7026 CV7027 CV7028 CV7029 CV7030	(V) (V) (V) (V) (V)	100 200 400 600 800	Note C C C C C	<u>MOUNTING POSITION</u>
					Any
Max. Mean Rectified Forward Current.					<u>PACKAGING</u>
at 25°C at 100°C		(A) (A)	0.75 0.5	A A	See K1007 Section 14
Max. Reverse Current at max. P.I.V. at 25°C at 100°C		(uA) (uA)	20 300		
Max. Surge Current at 25°C Max. Continuous Vibration Max. Shock		(A) (g) (g)	15 10 500	B	

NOTES

- A. See derating curves on page 2.
- B. Applies to all transients and is a maximum peak current where  $t_w$  is not greater than 10 mSecs.
- C. This rating applies to all waveforms including very short transients.

Joint Services Catalogue Nos. for CV7026, 5960 - 99 - 037 - 2045  
 for CV7027, 5960 - 99 - 037 - 2046  
 for CV7028, 5960 - 99 - 037 - 2047  
 for CV7029, 5960 - 99 - 037 - 2048  
 for CV7030, 5960 - 99 - 037 - 2049

# CV7026-30

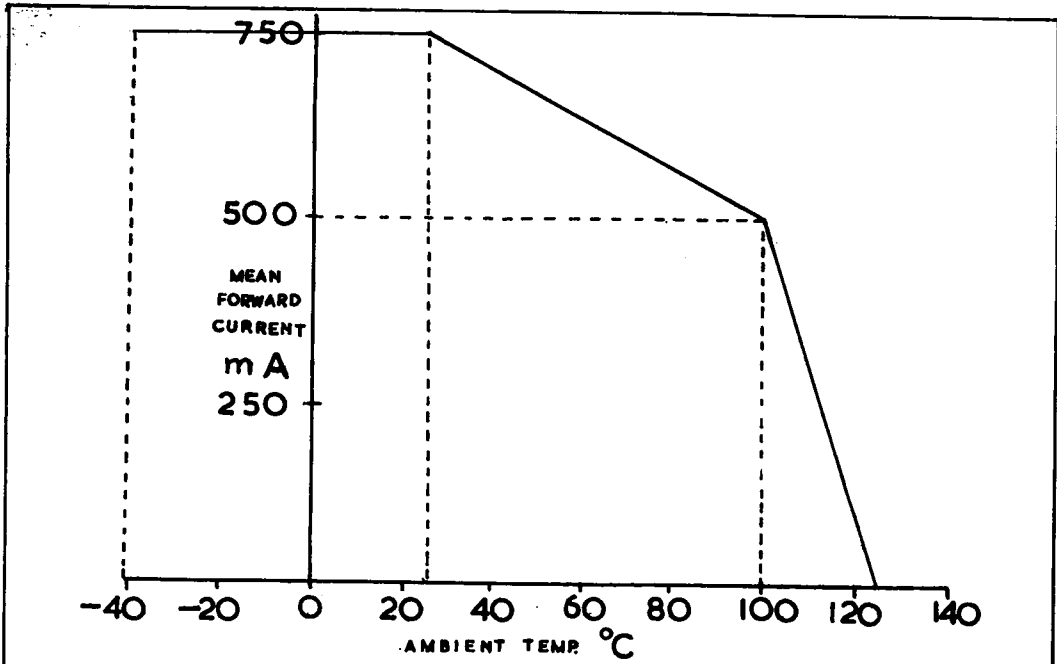


FIG. 1. DERATING CURVE

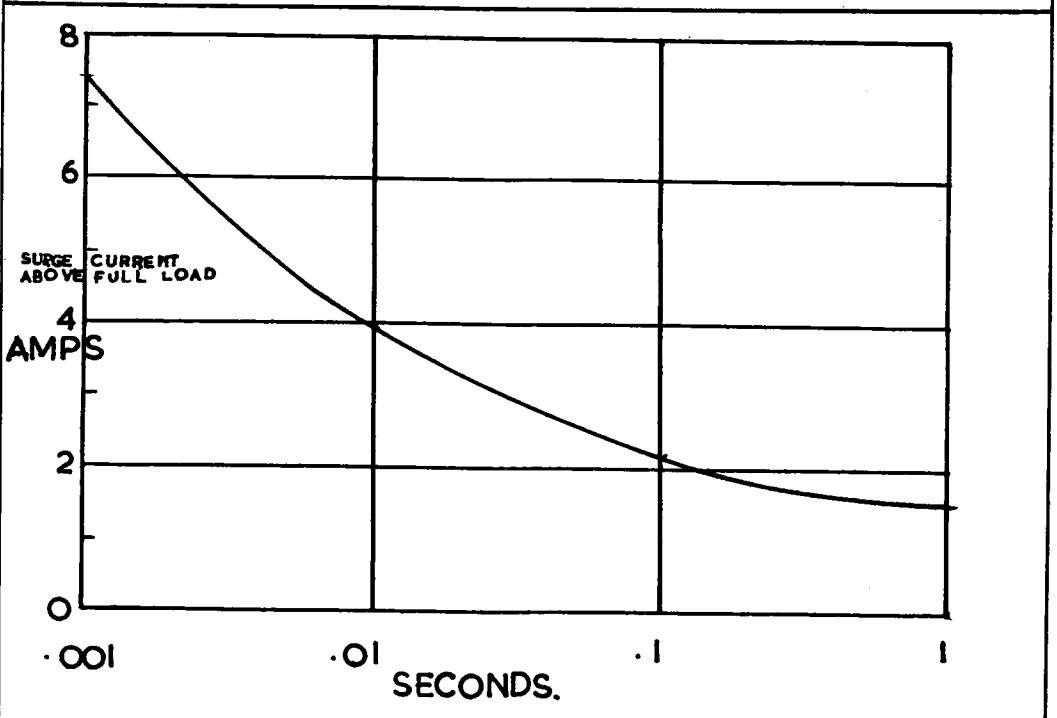


FIG. 2. SURGE RATING

CV7026-30

TESTS

To be performed in addition to those in K1007 Sections 5.2 &amp; 5.3

K1007	TEST	TEST CONDITIONS	AQL %	Insp. level	Sym- bol	LIMITS		UNITS
						Min.	Max.	
5C.4	<u>GROUP A</u> Forward Voltage Drop	If = 0.75A d.c. Tamb = 15°C-30°C		100%	Vf	-	1.0	V
5C.2	Reverse Current (1)	Tamb = 15°C-30°C CV7026 Vr = 100V CV7027 Vr = 200V CV7028 Vr = 400V CV7029 Vr = 600V CV7030 Vr = 800V		100%	Ir	-	20	uA
	<u>GROUP B</u>	Omitted						
5C.2	<u>GROUP C</u> Reverse Current (2)	Tamb = 100°C min. CV7026 Vr = 100V CV7027 Vr = 200V CV7028 Vr = 400V CV7029 Vr = 600V CV7030 Vr = 800V	2.5	I	Ir	-	300	uA
	<u>GROUP D</u>	Omitted						
11.5 10.1 10.2 10.3 11.3 11.4	<u>GROUP E</u> Soldering Lead fragility Temperature cycling Climatic Fatigue Shock	Three cycles -40°C to +100°C  Hammer angle = 60°			IC IC IC  IC IC TA			
8 5C.4 5C.2	<u>Post Temperature Cycling, Climatic, Fatigue and Shock Tests</u> Inoperatives Forward Voltage Drop Reverse Current (2)	If = .75A d.c. Tamb = 15°C-30°C Tamb = 100°C min. CV7026 Vr = 100V CV7027 Vr = 200V CV7028 Vr = 400V CV7029 Vr = 600V CV7030 Vr = 800V	4.0 4.0 4.0		Vf  Ir	-	1.1  500	V  uA
						-	500	uA
						-	500	uA
						-	500	uA
						-	500	uA

CV7026/1/3  
to CV7030/1/3 inclusive

