



SUBMINIATURE VOLTAGE REGULATOR AND VOLTAGE REFERENCE TUBES

SUBMINIATURE RECTIFIERS

SUBMINIATURE THYRATRONS

SUBMINIATURE VOLTAGE REGULATOR AND VOLTAGE REFERENCE TUBES

Tube Number	Class	Typical Application	Bulb	Base	Basing†	Maximum Dimensions	
						Length	Diameter
CK1037	Replaced by 6437						
CK1038	Gas Diode	Voltage Regulator	T3	Flat Press	Fig. 7	1 3/4"	.400"
CK1039	Replaced by 6438						
CK1055	Gas Diode	Voltage Regulator	T3	Flat Press	Fig. 8	1 3/8"	.400"
CK1061	Gas Diode	Voltage Regulator	T3	Flat Press	Fig. 7	2 1/16"	.400"
5644	Gas Diode	Voltage Regulator	T3	8 Lead Button	4CN	2.0"	.400"
5783	Gas Diode	Voltage Reference	T3	Flat Press	Fig. 7	1 1/2"	.400"
5783WA	Gas Diode	Voltage Reference	T3	Flat Press	Fig. 7	1 1/2"	.400"
5787	Gas Diode	Voltage Regulator	T3	Flat Press	Fig. 7	2.0"	.400"
5787WA	Gas Diode	Voltage Regulator	T3	Flat Press	Fig. 7	2.0"	.400"
5841	Gas Diode	Voltage Regulator	T3	Flat Press	Fig. 7	1 5/8"	.400"
5950	Gas Diode	Voltage Regulator	T3	Flat Press	Fig. 7	1 5/8"	.400"
6119	Gas Diode	Voltage Regulator	T3	Flat Press	Fig. 7	1 5/8"	.400"
6143	Gas Diode	Voltage Regulator	T3	Flat Press	Fig. 7	1 5/8"	.400"
6213	Gas Diode	Voltage Reference	T3	Flat Press	Fig. 7	1 3/8"	.400"
6308	Use 5783WA						
6437	Gas Diode	Voltage Regulator	T3	Flat Press	Fig. 7	1 5/8"	.400"
6438	Gas Diode	Voltage Regulator	T3	Flat Press	Fig. 7	1 5/8"	.400"
6542	Gas Diode	Voltage Regulator	T3	Flat Press	Fig. 7	2 1/8"	.400"
7099	Gas Diode	Voltage Regulator	T2	Flat Press	Fig. 9	1 3/16"	.322"

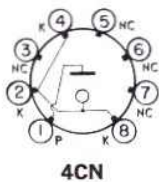
SUBMINIATURE RECTIFIERS

Tube Number	Class	Typical Application	Bulb	Base	Basing†	Maximum Dimensions	
						Length	Diameter
CK1036	Replaced by 6436						
CK1042	Replaced by 6659						
CK1058	Gas Diode	Half Wave Rectifier	T3		Fig. 10	2"	.425"
CK1058A	Gas Diode	Half Wave Rectifier	T3		Fig. 11	2"	.425"
6436	Gas Diode	Half Wave Rectifier	T3	Flat Press	Fig. 12	1 3/4"	.400"
6659	Gas Diode	Half Wave Rectifier	T3	Flat Press	Fig. 13	2 1/8"	.400"

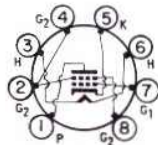
SUBMINIATURE THYRATRONS

Tube Number	Class	Typical Application	Bulb	Base	Basing†	Maximum Dimensions	
						Length	Diameter
RK61	Gas Tetrode	Model Aircraft Control	T4 1/2	Flat Press	Fig. 14	1 13/16"	.55"
CK1050A	Gas Triode	Light Indicator	T2	Flat Press	Fig. 15	1 1/4"	.315"
CK1054	Gas Triode	Model Aircraft Control	T4 1/2	Flat Press	Fig. 14	1 13/16"	.55"
CK1057	Gas Tetrode	Light Indicator	T2	Flat Press	Fig. 16	1 1/2"	.315"
5643	Gas Triode	Pulsing or Switching Service	T3	8 Lead Button	8DD	1 3/8"	.400"
7323	Use CK1050A						

Key to Symbols: *At 20 μAdc. •At 25 μAdc. †I.A. designations. Where none exists Raytheon uses figure no.



4CN



8DD

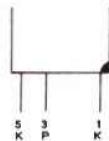


FIG. 7

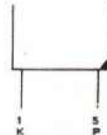


FIG. 8

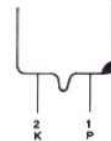


FIG. 9

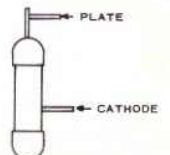
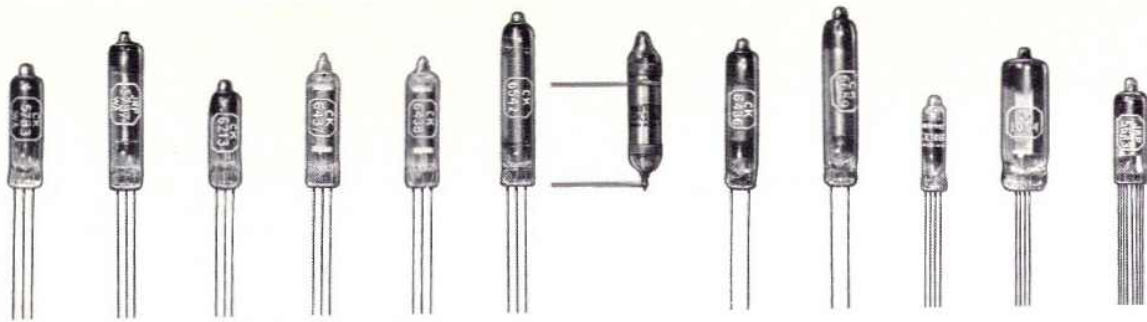


FIG. 10



Type	Emitter		Minimum Supply Voltage	Maximum Starting Voltage Dark	Maximum Starting Voltage Light	Current mA		Tube Drop V		Maximum Regulation V	Tube Number
	V	A				Min.	Max.	Min.	Max.		
											CK1037
Cold			930		930	.005	.125	880 @ 5 μ A	925 @ 100 μ A	15	CK1038
											CK1039
Cold			250	225	200	.075	.300	145	155	4.0	CK1055
Cold			150	150	135	5.	25	93	101	2.0	CK1061
Cold			175	175	125	5.	25	85	105	5	5644
Cold			140	140	125	1.5	3.5	82	92	3	5783
Cold			140	140	115	1.5	3.5	83	88	3	5783WA
Cold			150	150	135	5.	25	95	105	6	5787
Cold			150	150	135	5.	25	95	101	3	5787WA
Cold			940	940	940	.002	.050	882*	918*	14	5841
Cold			735	735	735	.002	.050	685*	715*	15	5950
Cold			2100	2100	2100	.002	.050	1960*	2040*	30	6119
Cold			1260	1260	1260	.002	.050	1175*	1225*	18	6143
Cold			200	200	180	1.	2.5	127	134	1	6213
											6308
Cold			800	800	800	.005	.100	685	720	15	6437
Cold			1400	1400	1400	.005	.100	1175	1245	20	6438
Cold			225	225	185	5.	25	142	165	6	6542
Cold			225	200	200	.075	.3	152	102	6.5	7099

Type	Emitter		Maximum Peak Inverse Voltage v	Maximum Peak Plate Current ma	Maximum D.C. Output Current mA	Average Tube Drop v	Tube Number
	V	A					
							CK1036
							CK1042
Cold			2800	100	12	100	CK1058
Cold			2800	100	12	100	CK1058A
Cold			2000	5.0	0.3		6436
Cold			2800	40	8	120	6659

Type	Emitter		Maximum Peak Inverse Voltage v	Maximum Peak Cathode Current ma	Maximum Average Cathode Current mA	Tube Number
	V	A				
Fil	1.4	0.05				RK61
Fil.	1.25	0.25	118	11	3.0	CK1050A
Fil.	1.4	0.05				CK1054
Cold			123	8	2.0	CK1057
Htr.	6.3	0.15	500	100	16	5643
						7323

Types in boldface are Raytheon Preferred types for new circuit designs. Ratings are typical operating characteristics.

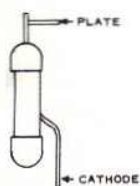


FIG. 11

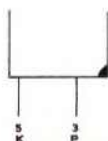


FIG. 12

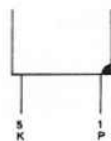


FIG. 13

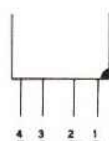


FIG. 14

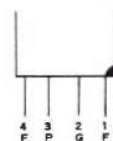


FIG. 15

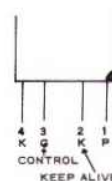


FIG. 16