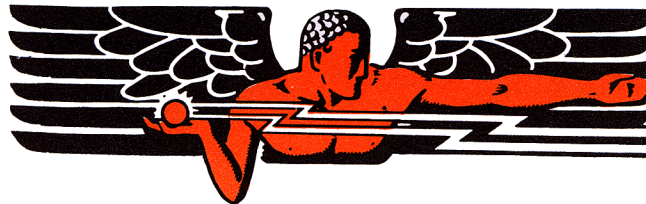


1958  
*Engineering Data and Ratings*



**UNITED ELECTRONICS**

# **CLIPPER DIODE • RECTIFIER TUBES**

**HIGH VACUUM... HIGH VOLTAGE INTERNAL ANODE TYPES**

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All of the half-wave rectifier and clipper diodes described herein employ anodes of specially processed electronic graphite. For over 22 years UNITED ELECTRONICS COMPANY has led the Industry in the design and production of graphite anode tubes which are specially meritorious in handling maximum heat dissipation in convection cooled internal anode design. Since graphite approaches the characteristics of a black body its heat radiating capability is far superior to that of any metal employed as anode material in tubes. A graphite anode will dissipate more than three times the heat of a comparably sized metal anode. The high thermal conductivity of graphite permits uniform heat distribution . . . avoiding "hot spots" and permitting anode operating temperatures up to 820°C. Since the material is infusible no anode warping or puncture can occur.

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**BULLETIN CDB-3**

**UNITED ELECTRONICS COMPANY**

42 SPRING STREET, NEWARK 4, NEW JERSEY

Since 1934

# ELECTRICAL AND PHYSICAL DATA

TYPE	CATHODE	RECTIFIER RATINGS					CLIPPER DIODE RATINGS					NET WEIGHT OUNCES	SHOCK RATING	MOUNTING POSITION
		FILAMENT		epx kv	ib a	Ib mAdc	FILAMENT		epx kv	ib a	Ibrms mAac			
		Vac	Aac				Vac	Aac						
3B24WA	Bonded Thoria Filament	5.0	3.0	20	.300	60						2¼	450G	ANY
	(½ Filament)	2.5	3.0	20	.150	30								
3B29	Unipotential Oxide	2.5	4.9	16	.250	65	2.5	4.9	10	8	240	2½	—	ANY
217C	Thoriated Tungsten	10.0	3.25	7.5	.600	150						7	—	VERTICAL
371B	Thoriated Tungsten	5.0	10.3	25	1.5	300						5¾	—	VERTICAL
543	Bonded Thoria Filament	5.0	5.0	30	.400	100						2½	375G	ANY
				15	.600	150								
558	Bonded Thoria Filament	5.0	12.0	15	.840	300	5.0	12.0	15	7	470	3	300G	ANY
576A	Thoriated Tungsten	5.0	14.0	25	2.5	500	5.4	15.0	25	12	800	5½	—	VERTICAL
577	Thoriated Tungsten	5.0	10.3	25	1.5	300						5	—	VERTICAL
578	Thoriated Tungsten	5.0	6.0	40	.750	100						4	—	VERTICAL
582	Unipotential Oxide	2.5	4.9	7	.800	210						2½	—	ANY
				9	.750	200								
583	Unipotential Oxide	2.5	4.9	17	.250	65	2.5	4.9	15	8	240	2½	375G	ANY
593	Thoriated Tungsten	5.0	10.3	25	1.5	300						5	—	VERTICAL
596*	Filamentary Oxide Coated	5.0	3.0	4.5	.165	55						3½	—	VERTICAL
				2.3	.825	275								
705WA	Bonded Thoria Filament	5.0	5.0	30	.400	100						3¼	300G	ANY
				15	.600	150								

\*FULL-WAVE RECTIFIER with Metal Anodes.

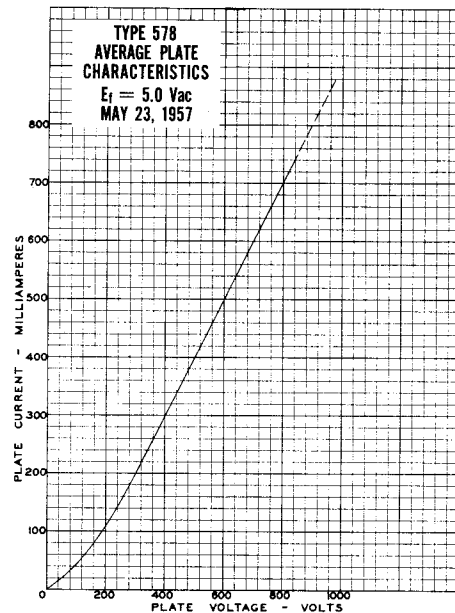
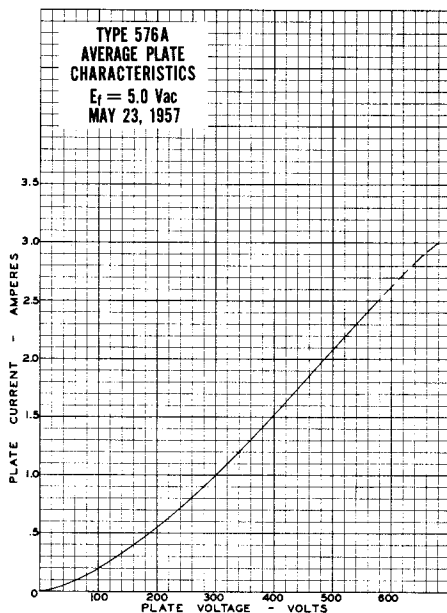
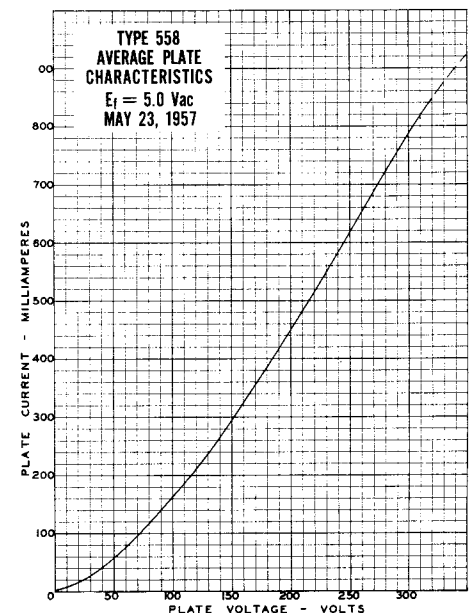
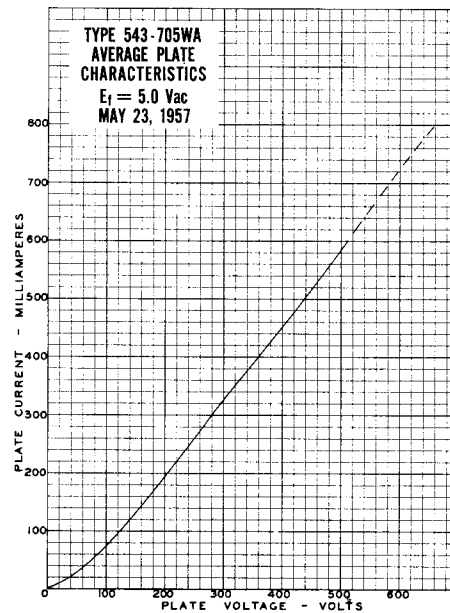
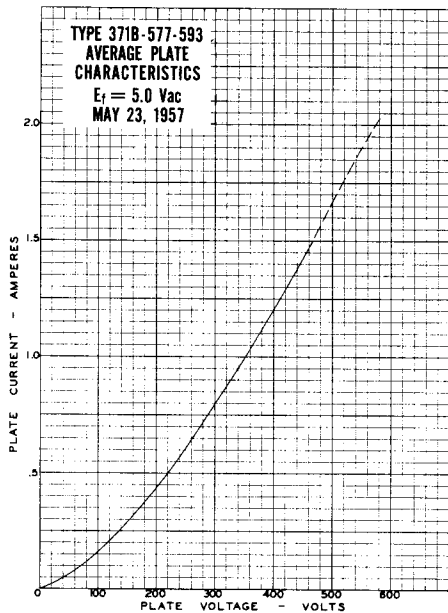
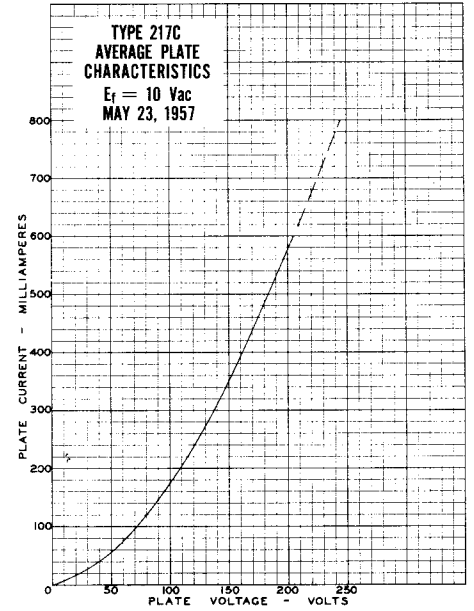
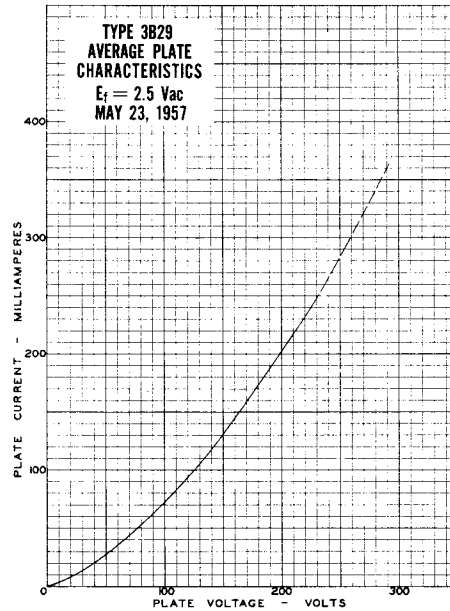
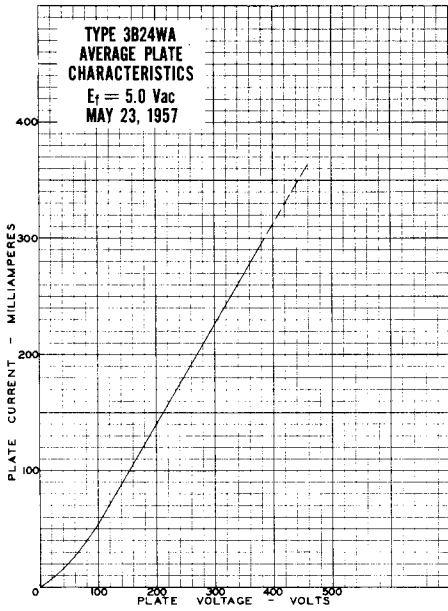
## BONDED THORIA FILAMENTS:

Extremely rugged, and capable of higher emission than the conventional thoriated tungsten filament, the bonded thoria tungsten core emitters used in types 3B24WA, 543, 558 and 705WA will yield exceptionally long life under the most severe environmental conditions.

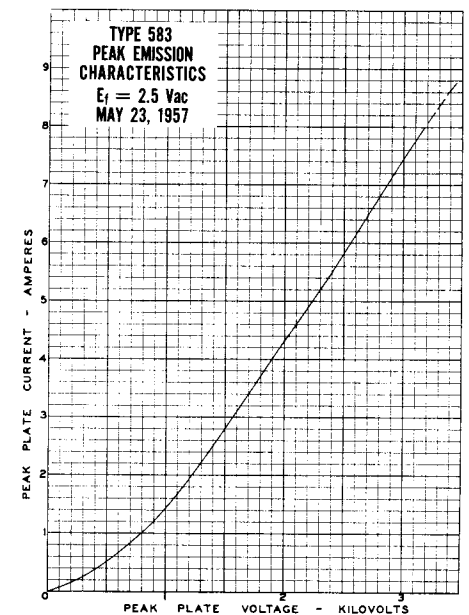
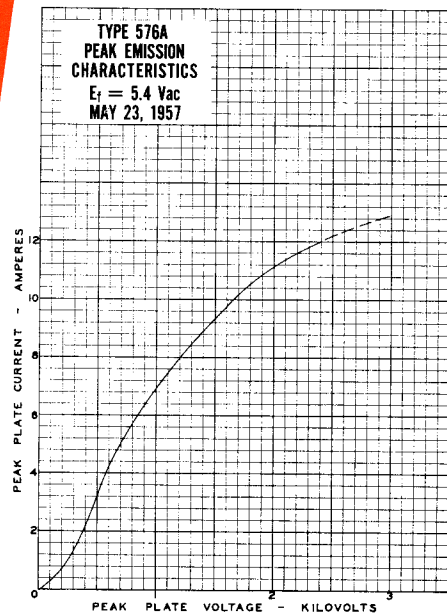
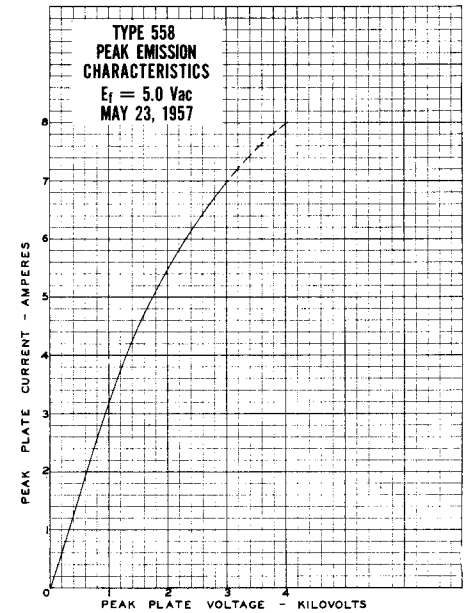
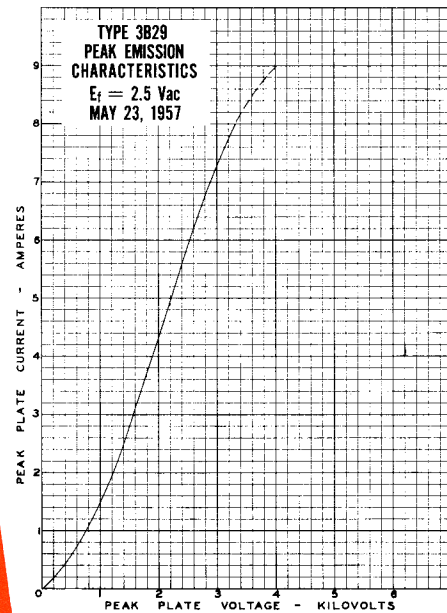
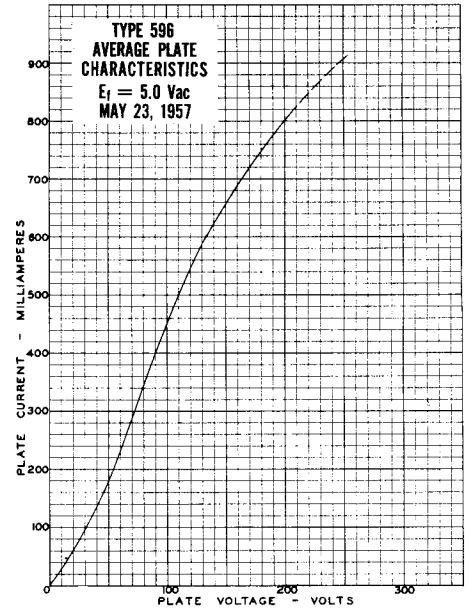
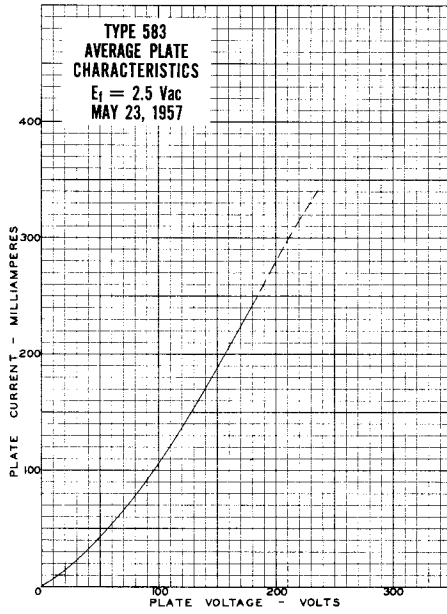
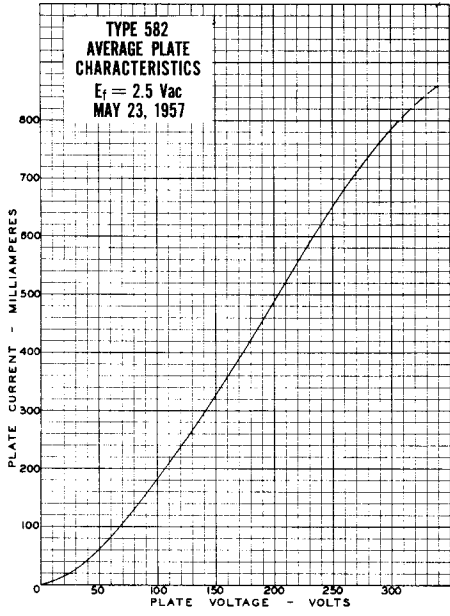
## INSTALLATION:

Metal bases and all unused pins should be connected externally to one of the filament pins to prevent corona.

# AVERAGE PLATE CHARACTERISTICS CURVES



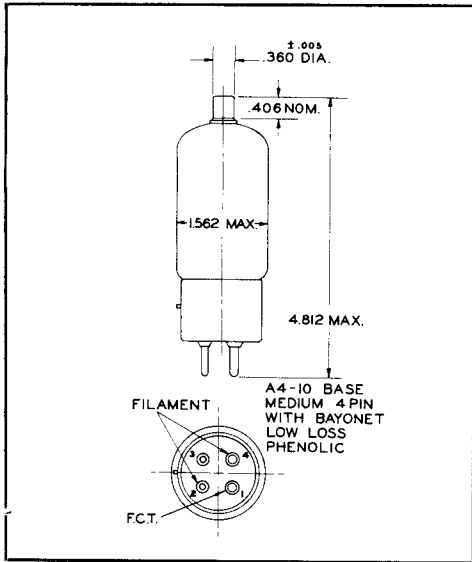
# AVERAGE PLATE CHARACTERISTICS CURVES



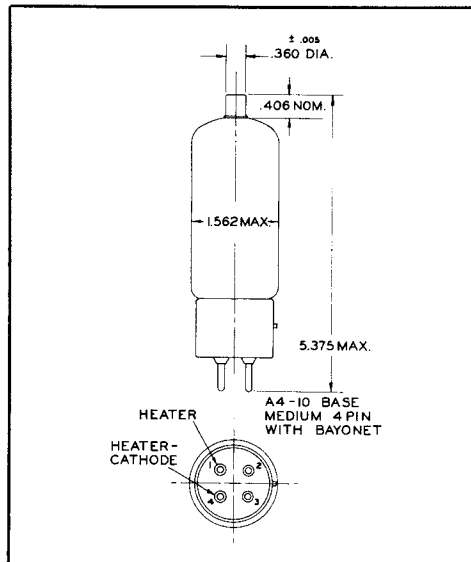
## PEAK EMISSION CHARACTERISTICS CURVES



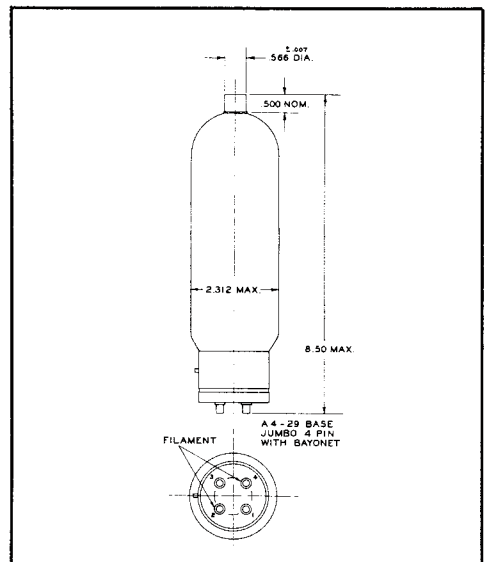
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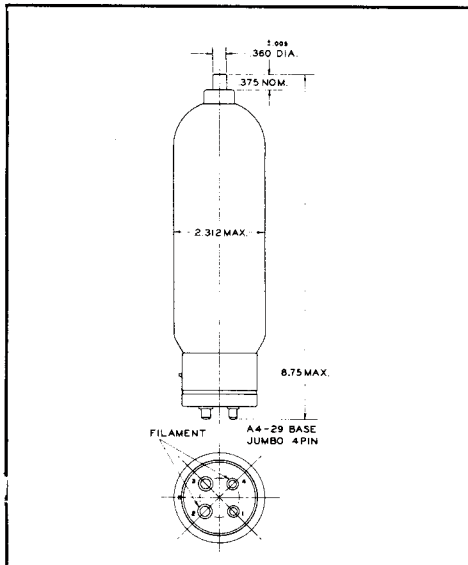
### TYPE 3B29



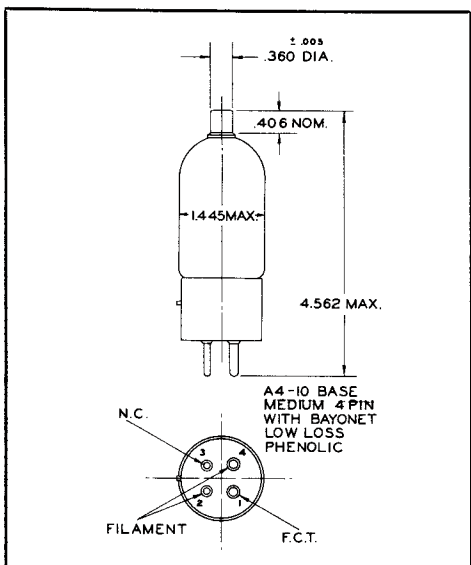
### TYPE 217C



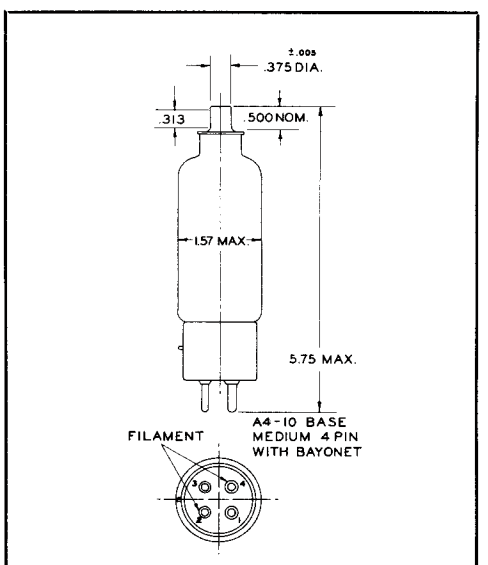
### TYPE 371B



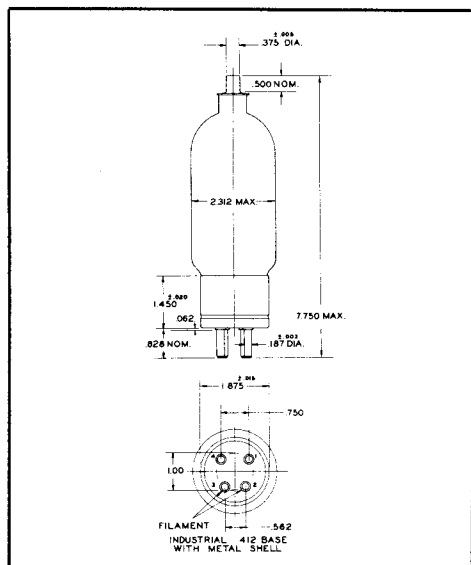
### TYPE 543



### TYPE 558



### TYPE 576A



### TYPE 577

