RECTIFIERS - DIODES

TYPE NO.	Filament		Fil. Heating Time (sec)	Tube Drop	Peak Inverse Anode Volts	Anode Current		Surge Current
	Volts	Amps		Volts	Volts	Peak Amps	Average Amps	Amps
3B-28	2.5	5.0	5	10.0	10,000	1.0	0.250	-
4B-32	5.0	7.5	30	10.0	10,000	5.0	1.25	50.0
249-B	2.5	7.5	15	15.0	7,500	2.5	0.640	-
575-A	5.0	10.0	30	10.0	15,000	6.0	1.5	60.0
673	5.0	10.0	30	10.0	15,000	6.0	1.5	60.0
857-B	5.0	30.0	60	10.0	22,000	40.0	10.0	400.0
866-AX	2.5	5.0	20	10.0	10,000	1.0	0.250	-
869-B	5.0	18.0	60	10.0	20,000	10.0	2.50	-
869-BL	5.0	18.0	60	10.0	20,000	10.0	2.50	-
872-AX	5.0	7.5	30	10.0	10,000	5.0	1.25	50.0
6339	6.3	1.5	30	-	WITH LIQUID COOLING			
					16,000 10,000	0.250 0.400	0.065 0.100	-
					WITHOUT COOLING - AIR OPE			
					12,000	0.200	0.050	-
6508	5.0	12.5	90	12.0	21,000	10.0	2.5	100.0
6693	5.0	11.5	60	12.0	2,500 15,000	10.0 12.0	5.0 3.0	200.0 120.0
7136	5.0	11.5	60	12.0	15,000	12.0	2.5	120.0
8008-AX	5.0	7.5	30	10.0	10,000	5.0	1.25	50.0
8020-AX	5.0	6.0	5	200V at 100ma	40,000	0.750	0.100	-

RUGGEDIZED MINIATURE TUBES A.R.I.N.C. TYPES

TYPE NO.	PROTOTYPE	HEATER		AMPLIFICATION FACTOR	TRANSCONDUCTANCE (MICROMHOS)	TYPICAL OPERATION					
						PLATE			GRID	SCREEN	
		VOLTS	AMPS			VOLTS DC	CURRENT mA-DC	RESISTANCE K OHMS	VOLTS DC	VOLTS DC	CURRE mA-D
5726	6AL5	6.3	0.3	Max. plate 117 V. rms at 9 mA-DC total output; Peak plate current 54 mA ma							
5654	6AK5	6.3	0.175	-	5000	120	7.5	340	R_k=200	120	2.5

Temperature Range °C		DESCRIPTION	TYPE NO.
Ambient	Mercury		
–	–	Xenon gas filled half-wave rectifier with wider temperature ranges than mercury-vapor tubes. Used largely by armed services to replace 866-A's.	3B-28
–	–	Xenon gas filled half-wave rectifier with wider temperature ranges than mercury-vapor tubes. Used largely by armed services to replace 872-A's.	4B-32
–	+25 to +70°	Convection-cooled mercury-vapor half-wave rectifier. Used in most Western Electric r-f equipment.	249-B
–	+20 to +50°	Convection-cooled mercury-vapor half-wave rectifier. Widely used in broadcast and industrial power supplies.	575-A
–	+20 to +50°	Convection-cooled mercury-vapor half-wave rectifier. Popular in high voltage and current applications.	673
–	+30 to +40°	Mercury-vapor half-wave rectifier with low voltage drop. Extremely popular in most high power broadcasting stations. Convection cooled.	857-B
–	+25 to +70°	Mercury-vapor half-wave rectifier of Amperex own design. More rugged trouble-free operation at only slight additional cost. Convection cooled.	866-AX
–	+30 to +40°	Mercury-vapor half-wave rectifier and probably the most popular intermediate high voltage tube in use today with broadcasters and industrial users. Convection cooled.	869-B
–	+30 to +40°	Electrically same as 869-B. Base has flexible filament leads with spade lugs for better, low-resistance contact with socket.	869-BL
–	+20 to +60°	Mercury-vapor half-wave rectifier. Universally used by almost every user and designer of H-V equipment. Convection cooled.	872-AX
-65 to +165°	–	High vacuum clipper diode and rectifier. Miniature version of 3B29 for liquid immersion cooling or air operation.	6339
TION			
-55 to +85°	–		
–	+25 to +45°	Mercury vapor rectifier for relatively high voltage and current. A high quality, long-life tube priced lower than any tube in its class on the market.	6508
+15 to +55° +15 to +35°	+25 to +75° +25 to +55°	Single-anode, mercury vapor rectifier with ratings, intermediate between standard types 575A and 869B. Delivers 9 amps up to 12 KV in a full wave, 3 phase power supply. Three tubes in a three phase half-wave power supply deliver 6 KV at 9 amps using only one filament transformer. Has large contact area, industrial base preventing base contact oxidation. Priced low for replacement market and original equipment.	6693
+15 to +35°	+25 to +55°	Single anode, mercury vapor, high voltage rectifier. Plate current ratings intermediate between types 575A and 6693. Cathode and anode design similar to 6693 but with 575A base. Recommended replacement for 575A in older equipment. For new equipment design, the 6693 is recommended.	7136
–	+20 to +60°	Mercury-vapor half-wave rectifier similar to 872-A characteristics; with heavy long pin industrial base. Used by armed services and in commercial applications. Convection cooled.	8008-AX
–	–	Half-wave, high vacuum rectifier with high inverse voltage and low average current. Used in radar and precipitator power supplies.	8020-AX

			CAPACITANCES-$\mu\mu$f			DESCRIPTION	TYPE NO.
POWER OUTPUT Watts	LOAD RESISTANCE K ohms	CUT-OFF BIAS Volts	G-P	INPUT	OUTPUT		
			–	–	3.2	High perveance twin diode. Rugged and reliable. For use in critical applications in which operational dependability is of primary importance.	5726
–	–	-12	0.02	4.0	2.9	Sharp cut-off pentode particularly suited for use as a wide band, high frequency amplifier. Ruggedized construction makes it suitable for critical applications in which operational dependability is of primary importance.	5654