

Selection Guide

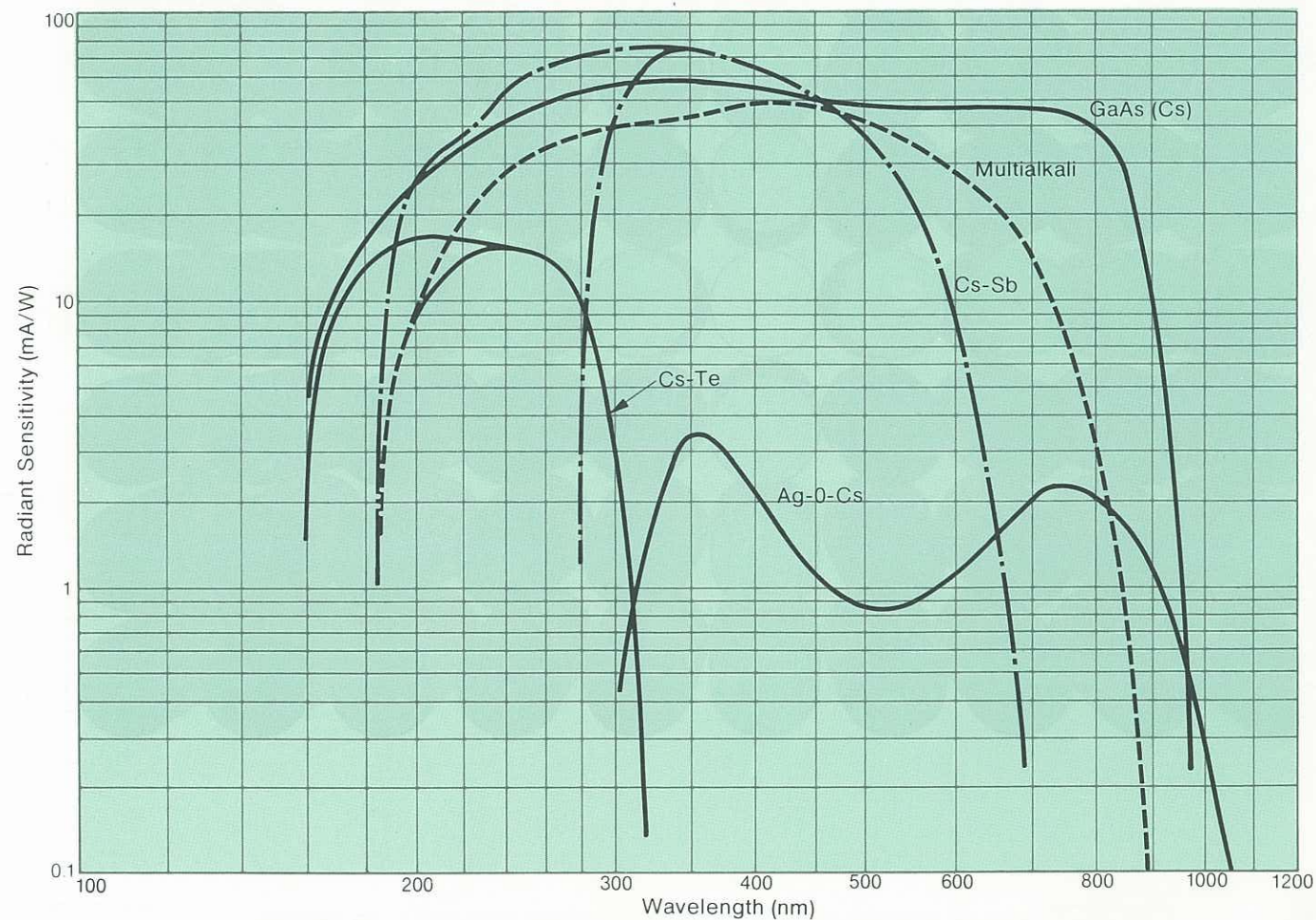
Side-on or Head-on Types	Nominal Diameter (mm Dia.)	Window Material Vacuum or Gas Types	Spectral Response (nm)		Cs-Te		Cs-Sb		Multialkali		GaAs (Cs)	Ag-O-Cs
			—		—	S-4	S-5	—	—	—	—	—
			185-320	160-320	280-650	185-650	280-850	185-850	160-910	400-1100		
		UV-glass	Fused Silica	Borosilicate glass	UV-glass	Borosilicate glass	UV-glass	Fused Silica	Borosilicate glass			
Side-on Types	18	Vacuum		PV13	R491		R518		PV11			
		Gas		PG14A, R250				PG12				
	18 (Top cathode)	Vacuum		PV16	R370							
	30 (GT types)	Vacuum		IP39	R630		R520, R314	R807	R321			
		Gas		4409					6953			
30 (Top cathode)	Vacuum				935							
19	Gas			90AG								
Head-on Types	21 or smaller	Vacuum	R788 (21 Dia.)	R765 (14 Dia.)	R414, R927 (9.5 Dia.) (21 Dia.)	R840, R727 (14 Dia.) (21 Dia.)	R645 (21 Dia.)	R330-02	R925 (21 Dia.)			
	25	Vacuum					R847					
	30	Vacuum	R403									
	Biplanar	Vacuum				R617-02	R617-03		R617-01			

Gas-Filled Type Phototubes

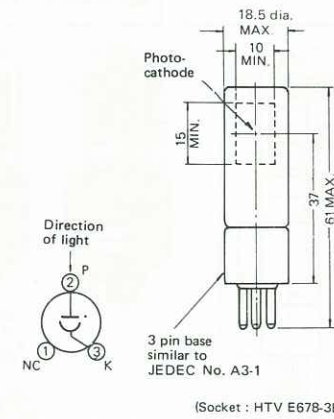
Type	Dimensional Outline	Cathode Type	Anode Form	Spectral Response (nm)	Maximum Ratings			Characteristics (25°C)					
					Anode Supply Voltage (Vdc)	Peak Cathode Current (μA)	Average Cathode Current Density (μA/mm²)	Average Cathode Current (μA)	Ambient Temperature (°C)	Anode Supply Voltage (Vdc)	Typical Luminous Sensitivity (μA/lm)	Gas Amplification (max)	Anode Dark Current (max) (A)
18mm Dia. Side-on Types													
PG12	①		Cone	400-1100	90	6	0.05	2	50	90	125	10	100×10 ⁻⁹
PG14A	②	Opaque	Rod	280-650	90	6	0.05	2	50	90	200	8	100×10 ⁻⁹
R250				280-650	80	6	0.05	2	50	75	300	8	0.5×10 ⁻⁹
19mm Dia. Side-on Type													
90AG	③	Opaque	Rod	280-650	90	6	0.05	2	50	90	150	8	100×10 ⁻⁹
30mm Dia. Side-on Types													
6953	④	Opaque	Frame	400-1100	90	9	0.05	3	50	90	200	10	2×10 ⁻⁹
4409				280-650	100	10	0.05	3	50	90	135	8	2×10 ⁻⁹

- Ⓐ Please refer page 1 which has spectral response curves.
- Ⓑ Absolute values.
- Ⓒ When illuminated for whole photocathode and with an interval of 1 second.
- Ⓓ On basis of tungsten-filament light source operated at 2856K, dc anode supply voltage as indicated and a 1 megohm load resistor. A light input of 0.05 lumen is used.
- ① Equivalent to CES PG51.

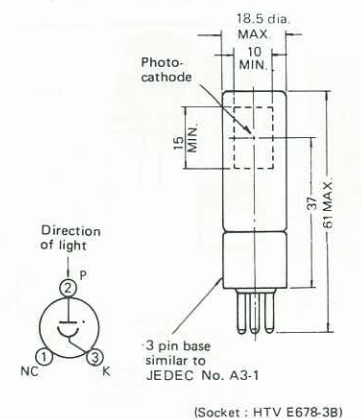
Spectral Response Characteristics



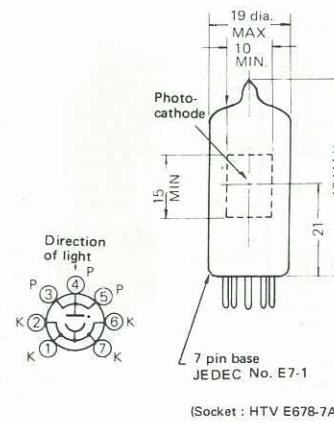
① PG12



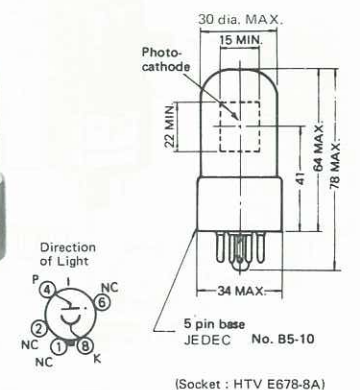
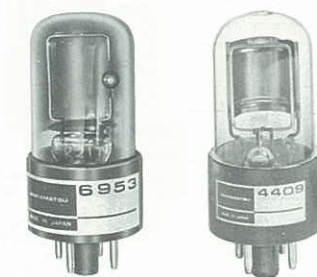
② PG14A R250



③ 90AG



④ 6953 4409



unit : mm