

51 mm (2 Inch) Diameter, Multialkali Photocathode 10-Stage, Head-on Type

GENERAL

Parameter		Description/Value	Unit
Spectral Response		300 to 850	nm
Wavelength of Maximum Response		420	nm
Photocathode	Material	Multialkali	—
	Minimum Useful Size	46	mm dia.
Window Material		Borosilicate glass	—
Dynode	Structure	Linear focused	—
	Number of Stages	10	—
Base		JEDEC No.B14-38	—
Socket		E678-14A	—

MAXIMUM RATINGS (Absolute Maximum Values)

Parameter		Value	Unit
Supply Voltage	Between Anode and Cathode	1600	Vdc
	Between Anode and Last Dynode	350	Vdc
Average Anode Current		0.1	mA
Ambient Temperature		-30 to +50	°C

CHARACTERISTICS (at 25°C)

Parameter		Min.	Typ.	Max.	Unit
Cathode Sensitivity	Luminous (2856K)	80	150	—	μA/lm
	Radiant Sensitivity at 420nm	—	64	—	mA/W
Anode Sensitivity	Luminous (2856K)	20	150	—	A/lm
	Radiant Sensitivity at 420nm	—	6.4×10^4	—	A/W
	Red/White Ratio	0.15	0.2	—	—
Gain		—	1.0×10^6	—	—
Anode Dark Current (after 30min. storage in darkness)		—	5	20	nA
Time Response	Anode Pulse Rise Time	—	3.4	—	ns
	Electron Transit Time	—	31	—	ns

VOLTAGE DISTRIBUTION RATIO AND SUPPLY VOLTAGE

Electrodes	K	Dy1	Dy2	Dy3	Dy4	Dy5	Dy6	Dy7	Dy8	Dy9	Dy10	P
Ratio	2	1	1	1	1	1	1	1	1	1	1	1

Supply Voltage: 1250Vdc, K: Cathode, Dy: Dynode, P: Anode

PHOTOMULTIPLIER TUBE R3256

Figure 1: Typical Spectral Response

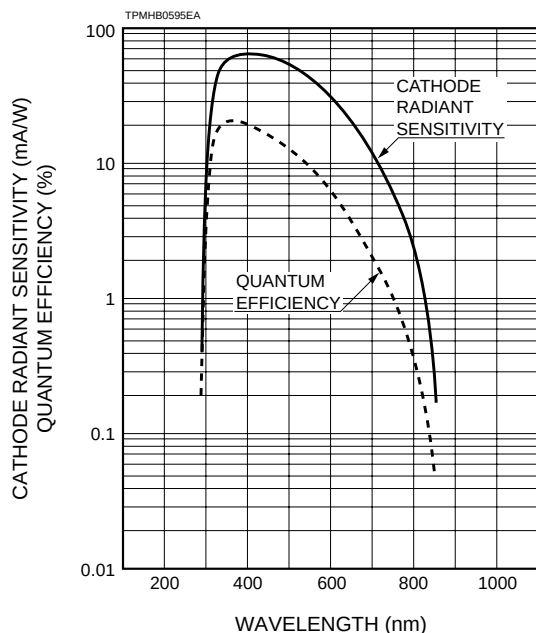


Figure 2: Typical Gain and Anode Dark Current

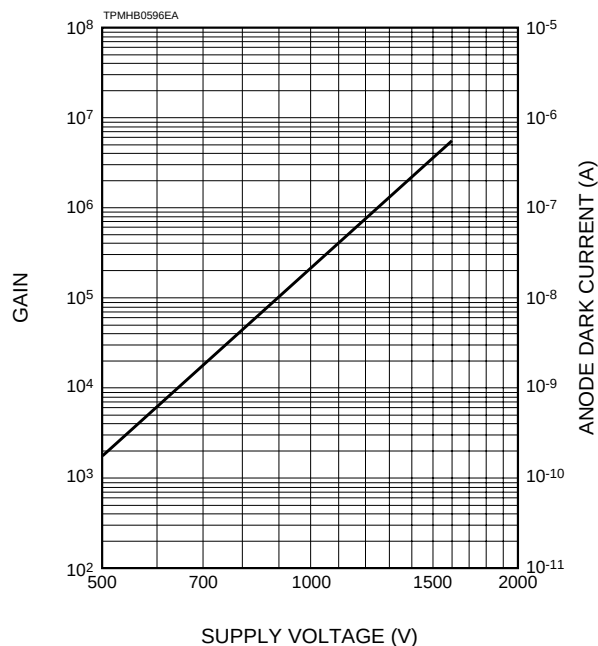
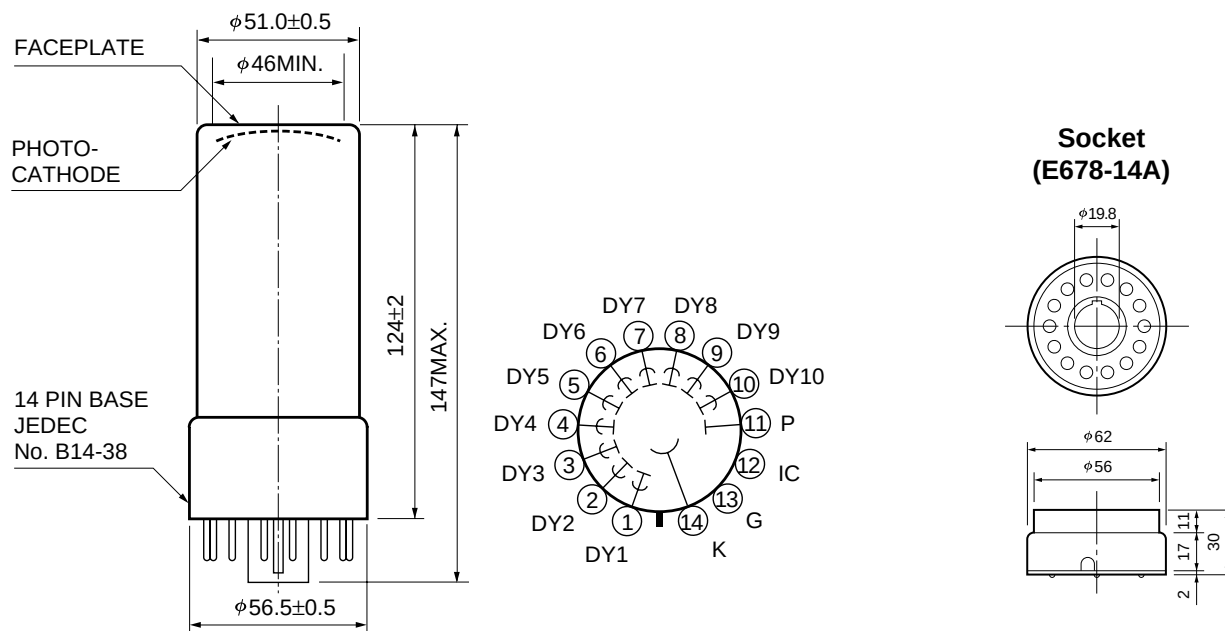


Figure 3: Dimensional Outline and Basing Diagram (Unit: mm)



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