

**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 Effective Area	φ46	mm
Window Material		Borosilicate glass	—
Dynode	Structure	Linear focused	—
	Number of Stages	10	—
Operating Ambient Temperature		-30 to +50	°C
Storage Temperature		-30 to +50	°C
Base		JEDEC No. B14-38	—
Suitable Socket		E678-14W (Sold Separately)	—

MAXIMUM RATINGS (Absolute Maximum Values)

Parameter		Value	Unit
Supply Voltage	Between Anode and Cathode	1600	V
	Between Anode and Last Dynode	350	V
Average Anode Current		0.1	mA

CHARACTERISTICS (at 25 °C)

Parameter		Min.	Typ.	Max.	Unit
Cathode Sensitivity	Luminous (2856 K)	80	150	—	μA/lm
	Radiant Sensitivity at 420 nm	—	64	—	mA/W
Anode Sensitivity	Luminous (2856 K)	20	150	—	A/lm
	Radiant Sensitivity at 420 nm	—	6.4 × 10 ⁴	—	A/W
	Red / White Ratio	0.15	0.2	—	—
Gain		—	1.0 × 10 ⁶	—	—
Anode Dark Current (after 30 min. 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: 1250 Vdc, K: Cathode, Dy: Dynode, P: Anode

PHOTOMULTIPLIER TUBE R3256

Figure 1: Typical Spectral Response

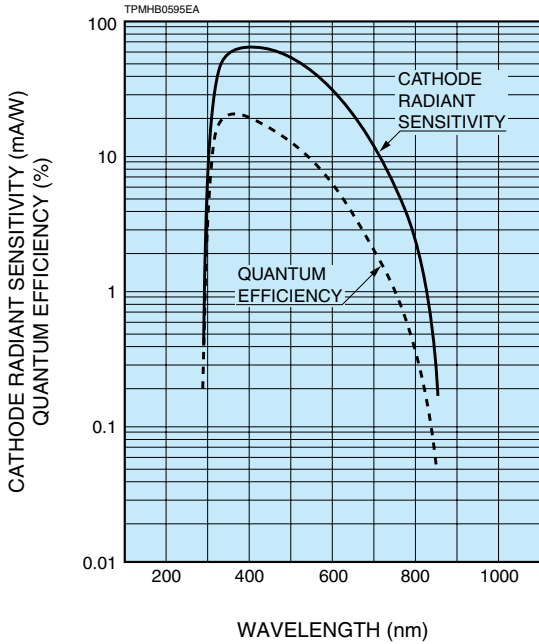


Figure 2: Typical Gain and Anode Dark Current

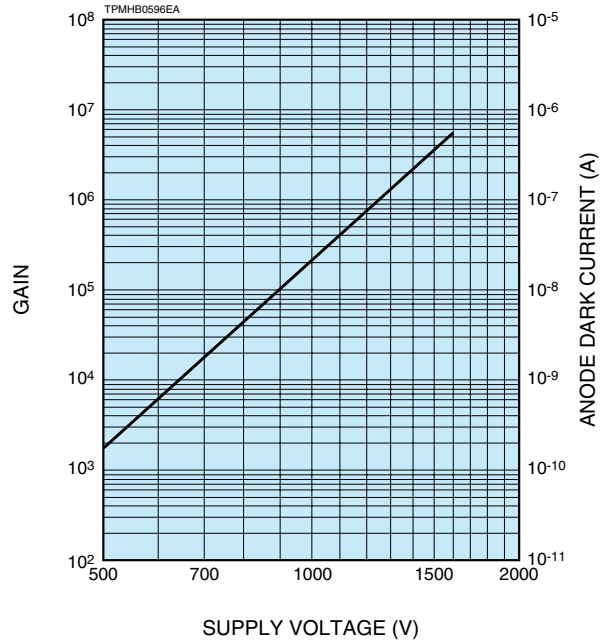
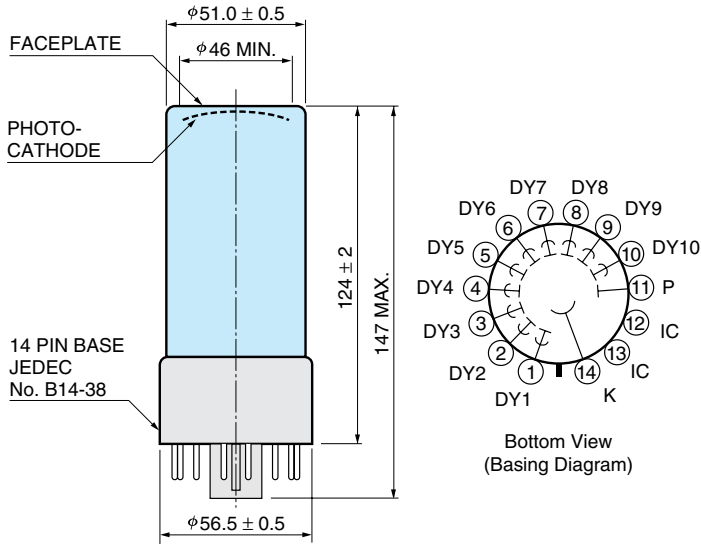
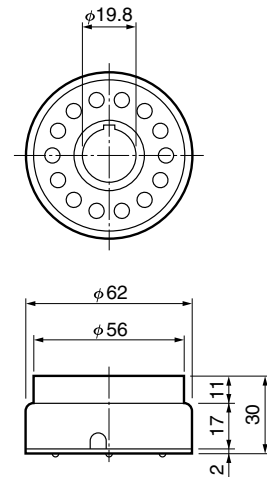


Figure 3: Dimensional Outline and Basing Diagram (Unit: mm)



Socket E678-14W (Sold Separately)



TPMHA0296EB

TACCA0200EA

• Please consult with Hamamatsu for suitable high voltage power supplies.

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