

38mm(1-1/2 Inch) Diameter, Extended Red Multialkali Photocathode Spectral Response 300 to 900 nm

GENERAL

Parameter		Description/Value	Unit
Spectral Response		300 to 900	nm
Wavelength of Maximum Response		600	nm
Photocathode	Material	Extended Red Multialkali	–
	Minimum Effective Area	34	mm dia.
Window Material		Borosilicate	–
Dynode	Structure	Circular-cage	–
	Number of Stages	10	–
Direct Interelectrode Capacitances	Anode to Last Dynode	3	pF
	Anode to All Other Electrodes	4	pF
Suitable Socket		E678-12A(supplied)	–

MAXIMUM RATINGS (Absolute Maximum Values)

Parameter		Value	Unit
Supply Voltage	Between Anode and Cathode	1500	Vdc
	Between Anode and Last Dynode	250	Vdc
Average Anode Current		0.2	mA
Ambient Temperature		-30 to 50	°C

CHARACTERISTICS (at 25°C)

Parameter		Min.	Typ.	Max.	Unit
Cathode Sensitivity	Luminous (2856K)	120	200	–	μA/lm
	Red/White Ratio (R-68 filter)	–	0.3	–	–
Anode Sensitivity	Luminous (2856K)	20	50	–	A/lm
Gain		–	2.5×10^5	–	–
Anode Dark Current (after 30min. storage in darkness)		–	8	30	nA
Time Response	Anode Pulse Rise Time	–	2.8	–	ns
	Electron Transit Time	–	40	–	ns

NOTE: Anode characteristics are measured with the voltage distribution ratio shown below.

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 : 1000Vdc, K : Cathode, Dy : Dynode, P : Anode

PHOTOMULTIPLIER TUBE R2066

Figure 1: Typical Spectral Response

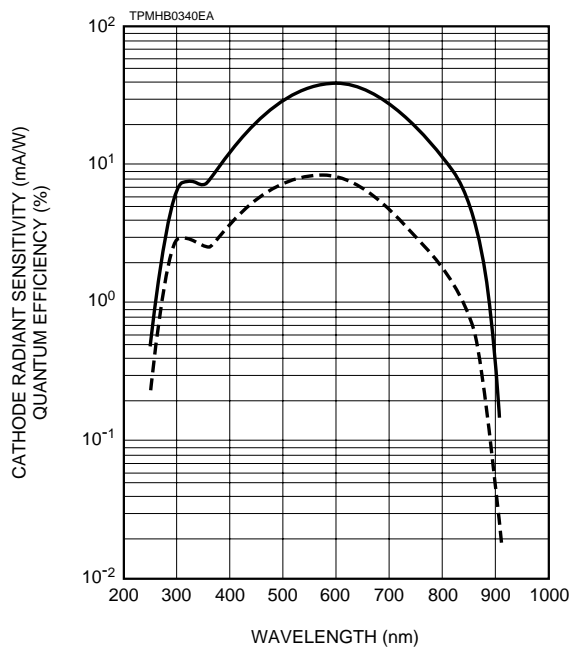


Figure 2: Typical Gain and Anode Dark Current

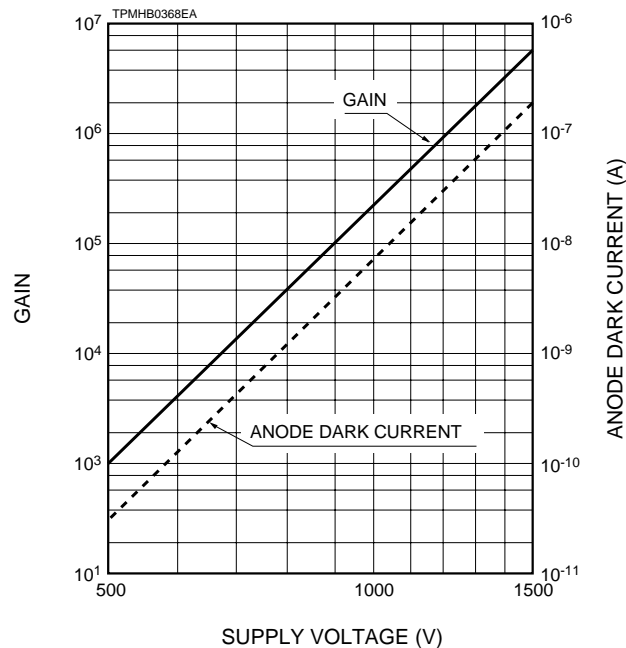
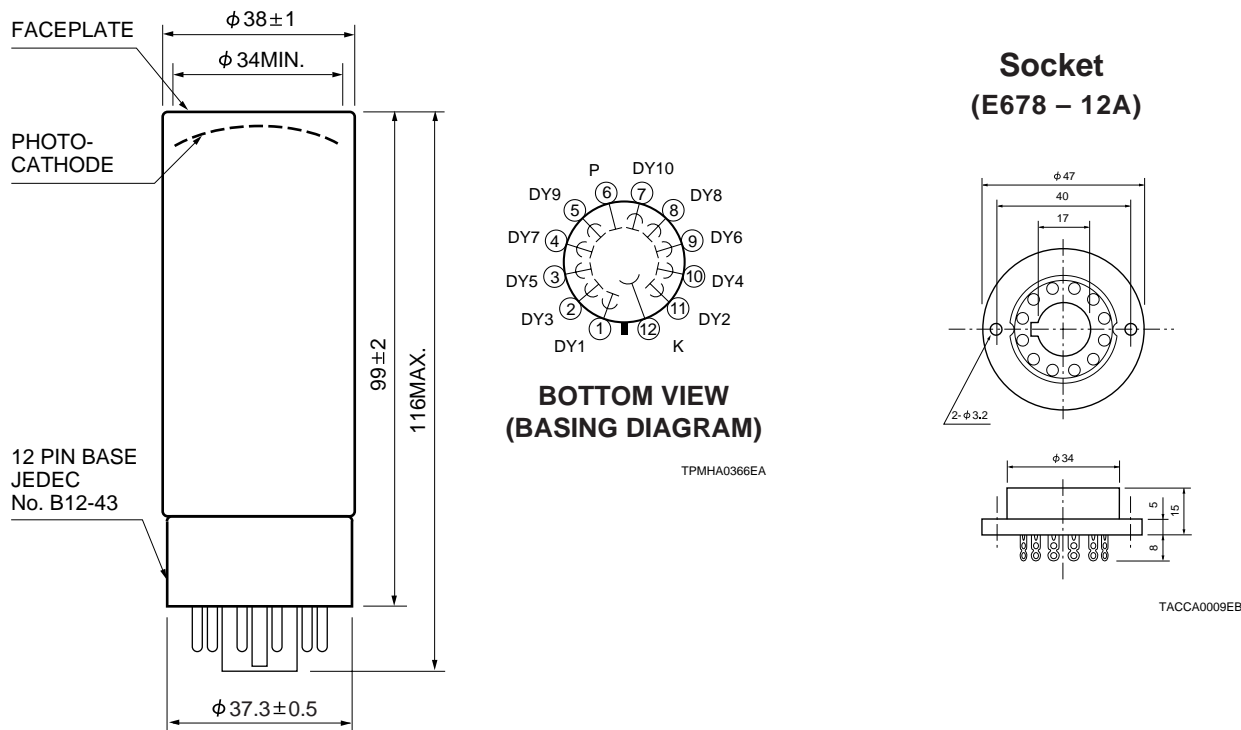


Figure 3: Dimensional Outline and Basing Diagram (Unit: mm)



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