

**For Astro-Physics and Other UV Radiation Detection
13 mm(1/2 Inch) Diameter, Cs-I Photocathode, 10-stage, Head-On Type**

GENERAL

Parameter		Description/Value	Unit
Spectral Response		115 to 200	nm
Wavelength of Maximum Response		140	nm
Photocathode	Material	Cs-I	-
	Minimum Effective Area	6	mm dia.
Window Material		MgF ₂	-
Dynode	Structure	Linear focused	-
	Number of Stages	10	-
Direct Interelectrode Capacitances	Anode to Last Dynode	1.0	pF
	Anode to All Other Electrodes	2.0	pF
Base		12-pin base JEDEC No. B12-43	-
Suitable Socket		E678-12A(option)	-

MAXIMUM RATINGS (Absolute Maximum Values)

Parameter		Value	Unit
Supply Voltage	Between Anode and Cathode	2250	Vdc
	Between Anode and Last Dynode	250	Vdc
Average Anode Current		0.01	mA

CHARACTERISTICS (at 25°C)

Parameter		Min.	Typ.	Max.	Unit
Cathode Sensitivity	Radiant at 122nm	-	9.8	-	mA/W
	Quantum Efficiency at 130nm	-	13	-	%
Anode Sensitivity	Radiant at 122nm	-	9.8×10^2	-	A/W
Gain		-	1.0×10^5	-	-
Anode Dark Current (after 30min. storage in darkness)		-	0.03	0.05	nA

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	1	1	1	1	1	1	1	1	1	1	1	1

Supply Voltage : 2000Vdc, K:Cathode, Dy:Dynode, P: Anode

PHOTOMULTIPLIER TUBE R1081

Figure 1: Typical Spectral Response

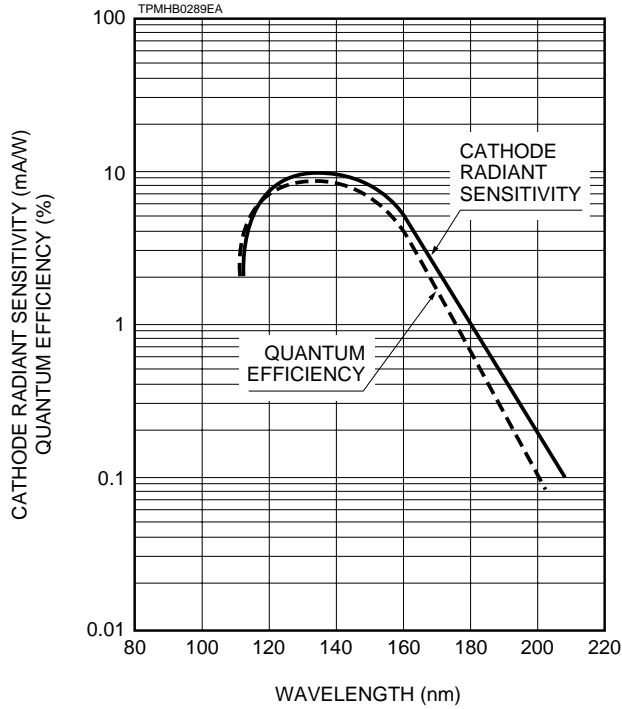
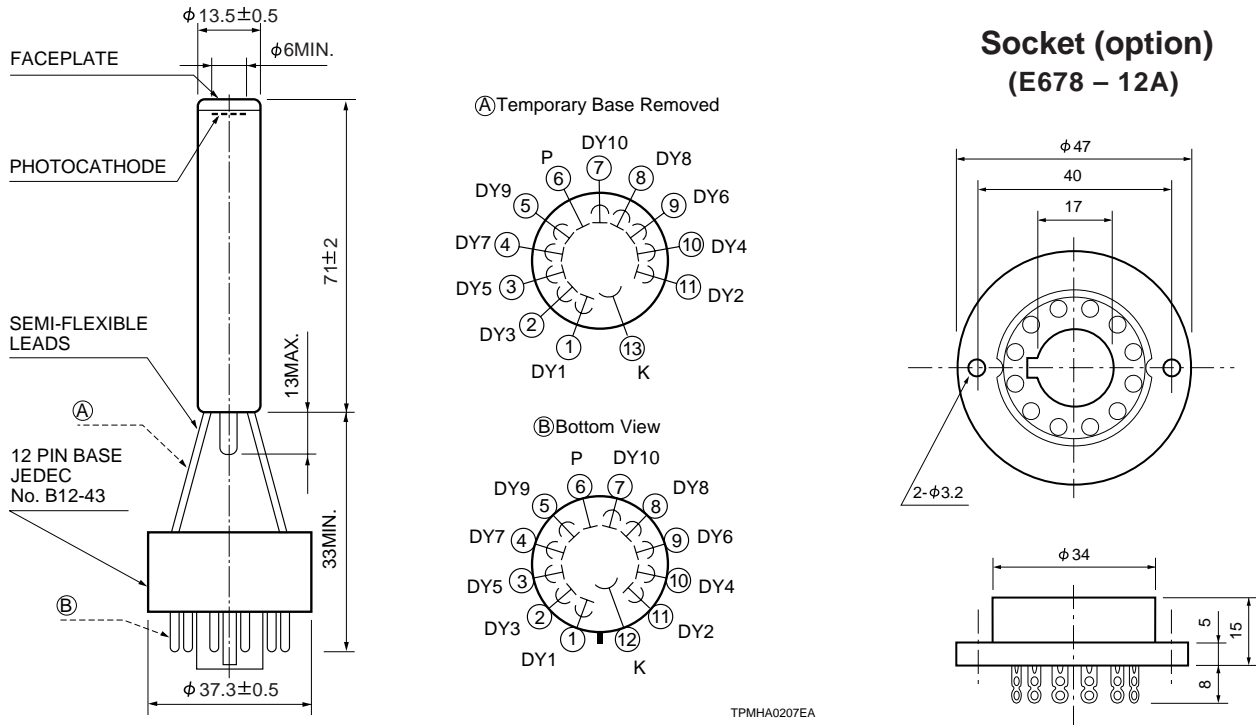


Figure 2: Dimensional Outline and Basing Diagram (Unit : mm)



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