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SEEKER PMT S

Applications -

- Radiation measurement
- Low level light detection
- Chemiluminescence measurement
- Bioluminescence measurement

SPECIFICATIONS

GENERAL

Parameter	Value
Spectral response :	300 to 650 nm
Wavelength of maximum response :	420 nm
Photocathode Material :	Bialkali
Window material Minimum effective area :	ϕ 22 mm Borosilicate glass
Dynode Structure :	Circular and linear-focused
Dynode Number of stages :	10
Operating ambient temperature :	-30 to +50 °C

MAXIMUM RATINGS (Absolute maximum values)

Parameter	Value
Supply voltage Between anode and cathode	1250 V
Supply voltage Between anode and last dynode	250 V
Average anode current	0.1 mA

CHARACTERISTICS (at 25 °C)

Parameter	Value
Cathode sensitivity Luminous (2856 K) :	60 to 90 µA/lm
Cathode sensitivity Quantum efficiency at 420 nm :	26 %
Cathode sensitivity Blue sensitivity index:	9.0 to 10.5
Anode sensitivity Luminous (2856 K) :	90 to 180 A/lm
Gain :	— / 1.5×10^6
Anode dark current (after 30 min storage in darkness):	0.5 nA
Anode dark count[A] :	100 to 300 s^{-1}
Time response Anode pulse rise time :	1.5 ns
Time response Electron transit time :	17 ns

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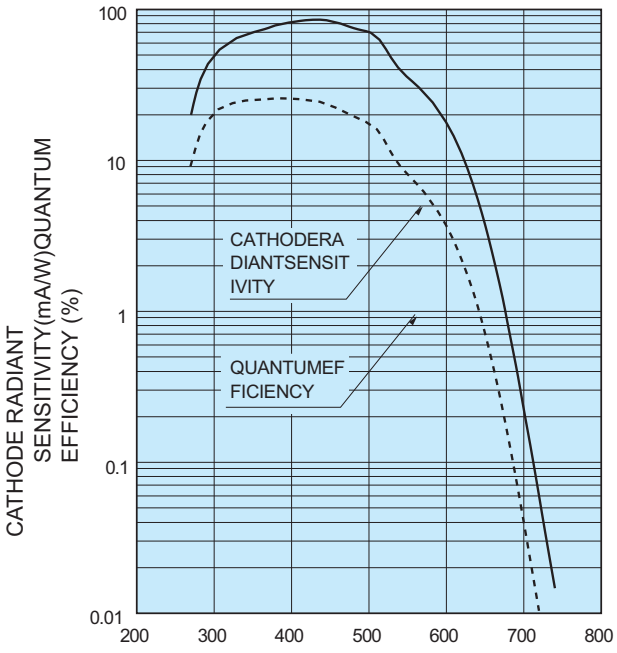
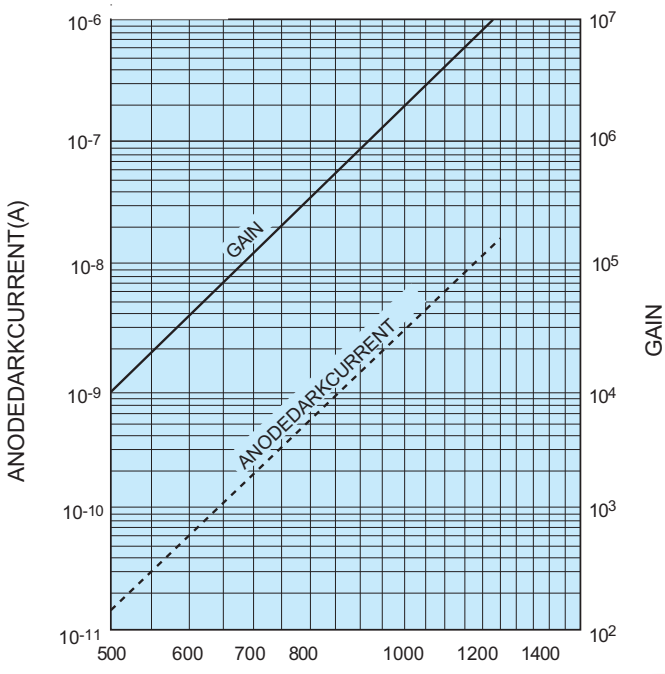
Socket details

Specification
Applicable PMT daimeter = 25 nm (1”)
Outline and daimeter
Grounded electrode/ Supply voltage polarity = Anode/-
Maximum ratings insulation voltage between case and pins (V)= 1500
Maximum ratings Supply voltage (v) = 0.30
Maximum ratings Voltage driver current (mA) = $1x10^{-10}$
Leakage current in single Max. (A) =4.29 Ⓑ
Tottal voltage divider resistance (MO_M) = 14 (at 1250 V)
Time response = Dc / Pulse Ⓒ

Housing and Case details

Specification
Photomultiplier Tube Diameter = φ25mm Head-on type
Internal Dia. = φ29 +/- 0.5 mm
Thickness = 0.8 mm
Lenght = 48 +/-0.5 mm
Weight = 32g





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