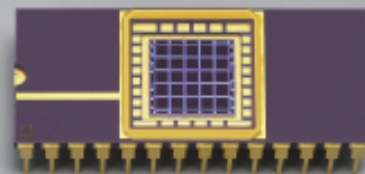


5 × 5 element Si PIN photodiode array **S7585**

For simple 2-dimensional photometry



Features

- 2-D array of 5 × 5 element
- Active area per element: 1.3 × 1.3 mm
- Element pitch (center to center spacing): 1.5 mm (X, Y)
- 28-pin DIP for easy use

Applications

- 2-D photometry

General ratings

Parameter	Symbol	Value	Unit
Element size	A	□1.3 (× 25 element)	mm
Element pitch	-	1.5	mm
Package	-	28-pin DIP	-
Window material	-	Flat glass	-

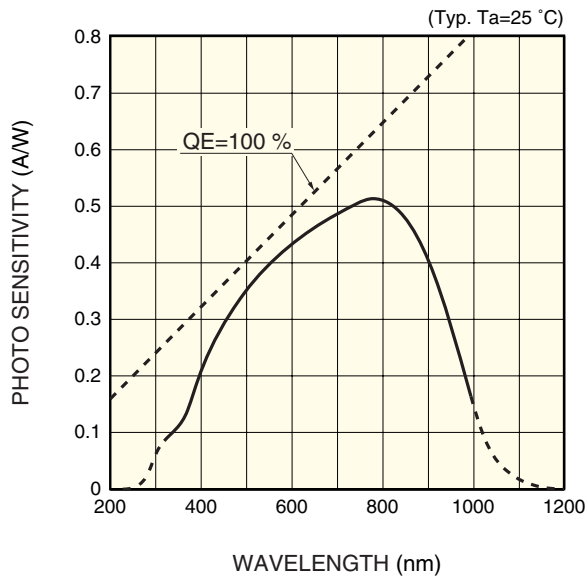
Absolute maximum ratings

Parameter	Symbol	Value	Unit
Reverse voltage	V _R Max.	15	V
Power dissipation	P	50	mW
Operating temperature	T _{opr}	-20 to +60	°C
Storage temperature	T _{stg}	-20 to +80	°C

Electrical and optical characteristics (T_a=25 °C, per 1 element)

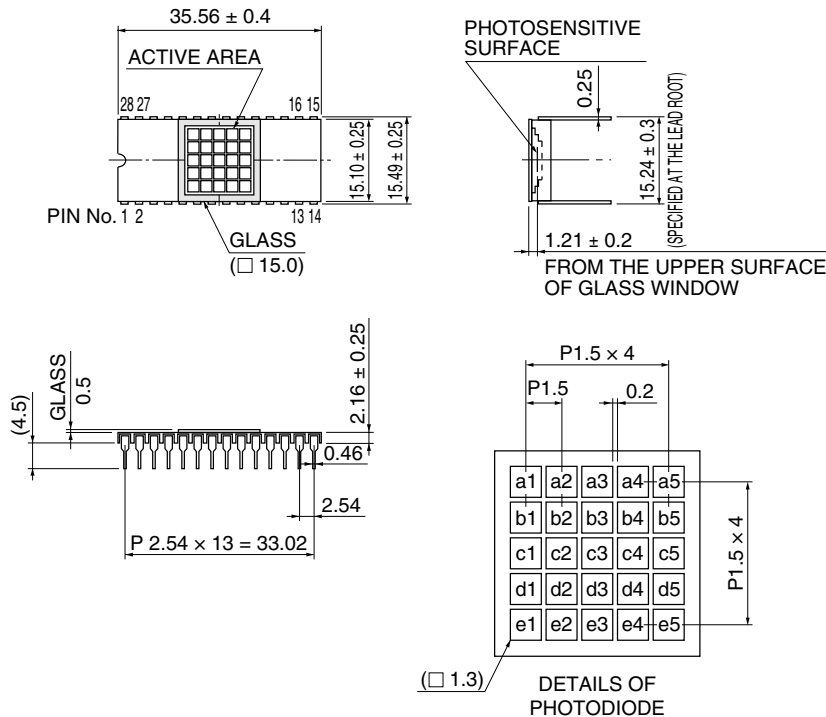
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Spectral response range	λ		-	320 to 1000	-	nm
Peak sensitivity wavelength	λ _p		-	800	-	nm
Photo sensitivity	S	λ=540 nm	0.33	0.39	-	A/W
		λ=λ _p	0.43	0.5	-	
Dark current	I _D	V _R =5 V	-	0.05	1.0	nA
Cut-off frequency	f _c	V _R =5 V, R _L =50 Ω, λ=690 nm	-	170	-	MHz
Rise time	t _r	V _R =5 V, R _L =50 Ω, λ=690 nm	-	2	-	ns
Terminal capacitance	C _t	V _R =5 V, f=1 MHz	-	10	-	pF

Spectral response



KMPDB0133EA

Dimensional outline (unit: mm)



KMPDA0117EA

Pin No.	Element No.	Pin No.	Element No.
1	KC	15	KC
2	c1	16	c5
3	d1	17	b5
4	e1	18	a5
5	c2	19	c4
6	e2	20	a4
7	d2	21	b4
8	e3	22	a3
9	e4	23	a2
10	e5	24	a1
11	d3	25	b3
12	d5	26	b1
13	d4	27	b2
14	c3	28	GND

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