

# Si photodiode

## S5668-11/-34

### High sensitivity X-ray detectors



#### Features

- 16-element photodiode array with scintillator  
S5668-11: CsI  
S5668-34: ceramic scintillator
- High sensitivity compared with CWO  
S5668-11: 3.2 times  
S5668-34: 1.8 times
- S5668-34: high reliability  
less afterglow, low cross-talk, low capacitance

#### Applications

- X-ray fluorescence analysis
- X-ray detection

勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-34970699  
勝特力电子(深圳) 86-755-83298787  
Http://www.100y.com.tw

#### ■ Absolute maximum ratings (Ta=25 °C)

Parameter	Symbol	Value	Unit
Reverse voltage	VR Max.	10	V
Operating temperature	Topr	-10 to +60	°C
Storage temperature	Tstg	-20 to +70	°C

#### ■ Photodiode electrical and optical characteristics (Ta=25 °C, per element)

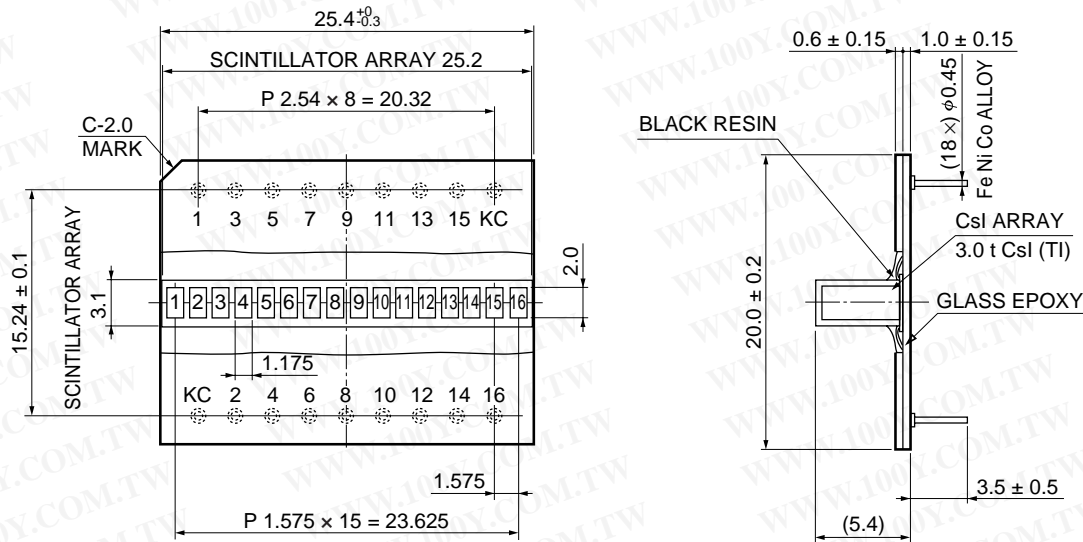
Parameter	Symbol	Condition	S5668-11		S5668-34		Unit
			Typ.	Max.	Typ.	Max.	
Spectral response range	$\lambda$		320 to 1100	-	320 to 1000	-	nm
Peak sensitivity wavelength	$\lambda_p$		960	-	800	-	nm
Photo sensitivity	S	$\lambda=540$ nm	0.31	-	0.38	-	A/W
		$\lambda=\lambda_p$	0.56	-	0.54	-	A/W
X-ray sensitivity	Sx	X-ray tube voltage= 120 kV *	5.8	-	2.5	-	nA
Dark current	ID	VR=10 mV	1	10	1	30	pA
Terminal capacitance	Ct	VR=0 V, f=10 kHz	300	550	35	55	pF

\* Tube current=1.0 mA, aluminum filter: t=6 mm, distance=830 mm

Note) Sensitivity values are just for your reference. Actual sensitivity values may vary depending on an equipment type and measurement conditions.

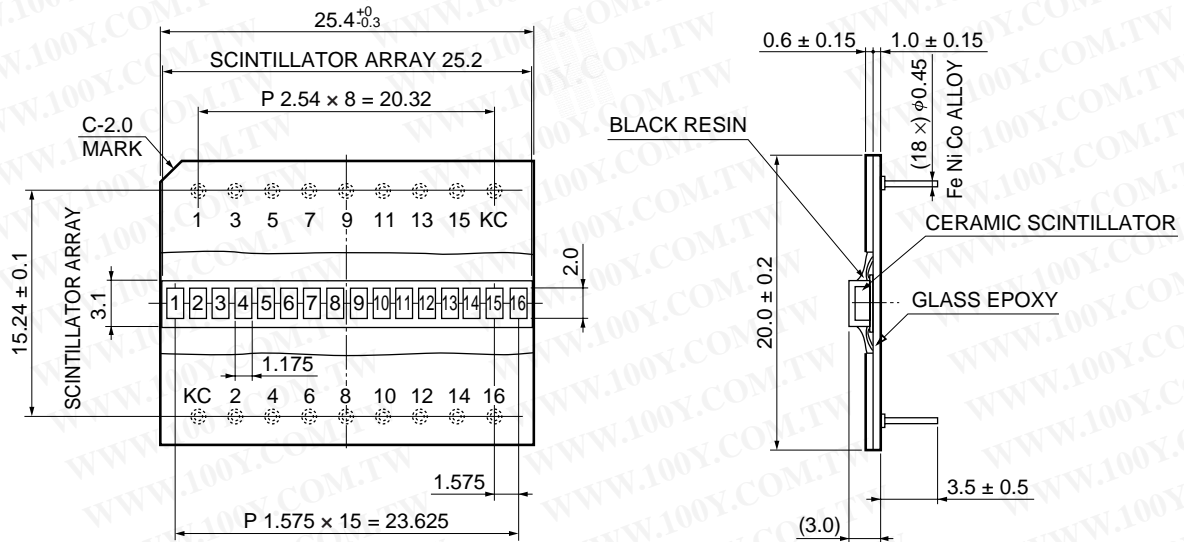
Dimensional outlines (unit: mm)

S5668-11



KMPDA0130EB

S5668-34



KMPDA008EB

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