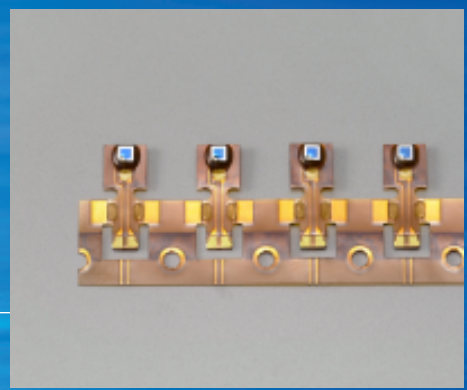


NEW

PHOTODIODE

Si PIN photodiode S8283

Photodiode chips arranged on flexible PC board



Features

- Photodiode using flexible cable
- 3D wiring possible
- Thin package: 1.5 mm thick Max.
- Active area: 1.05 × 1.05 mm

Applications

- Laser monitor, etc.

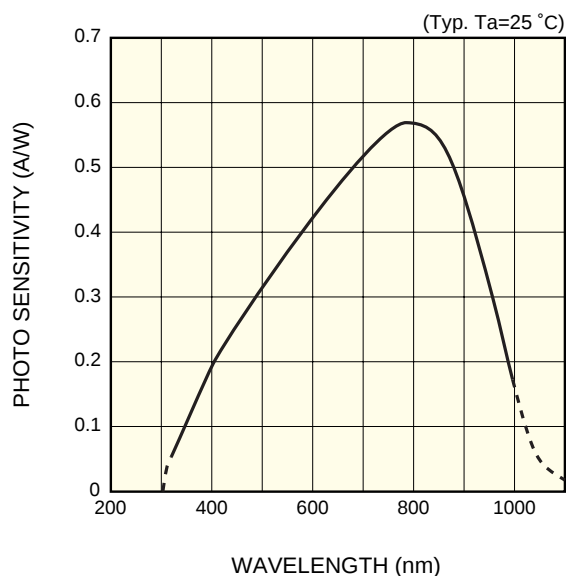
■ Absolute maximum ratings (Ta=25 °C)

Parameter	Symbol	Value	Unit
Reverse voltage	V _R Max.	10	V
Operating temperature	T _{opr}	-10 to +60	°C
Storage temperature	T _{stg}	-20 to +80	°C

■ Electrical and optical characteristics (Ta=25 °C)

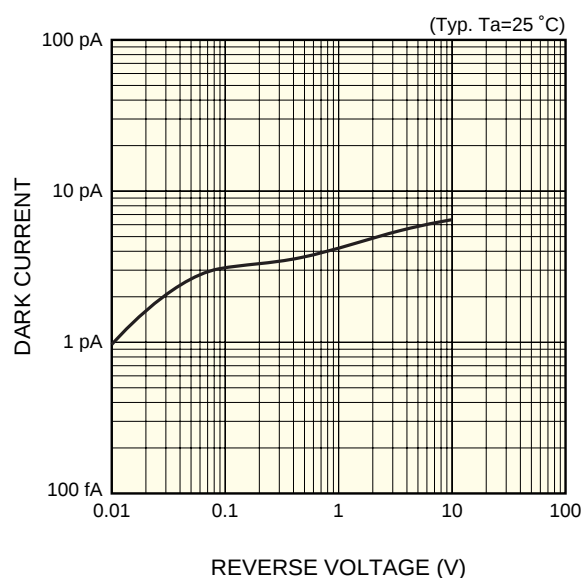
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Spectral response range	λ		-	320 to 1000	-	nm
Peak sensitivity wavelength	λ_p		-	800	-	nm
Photo sensitivity	S	$\lambda=780$ nm	0.48	0.57	-	A/W
Dark current	I _D	V _R =5 V	-	6	100	pA
Cut-off frequency	f _c	V _R =5 V, R _L =50 Ω $\lambda=780$ nm, -3 dB	-	300	-	MHz
Terminal capacitance	C _t	V _R =5 V, f=10 kHz	-	5	12	pF

■ Spectral response



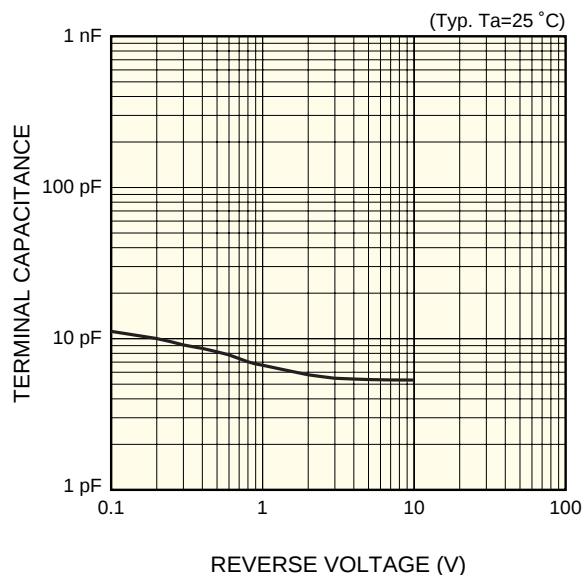
KPINB0215EA

■ Dark current vs. reverse voltage



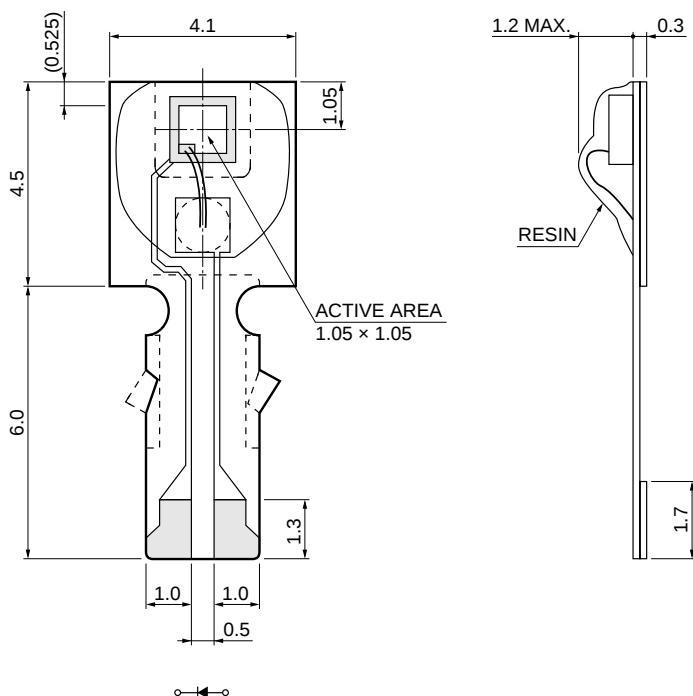
KPINB0216EA

■ Terminal capacitance vs. reverse voltage



KPINB0217EA

■ Dimensional outline (unit: mm)



KPINA0079EA

HAMAMATSU

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