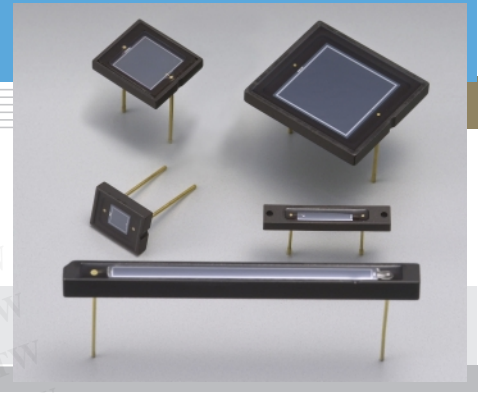


Si photodiode S2387 series

For visible to IR, general-purpose photometry



Features

- High sensitivity
- Low dark current
- High linearity

Applications

- Analytical equipment
- Optical measurement equipment, etc.

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

■ General ratings / Absolute maximum ratings

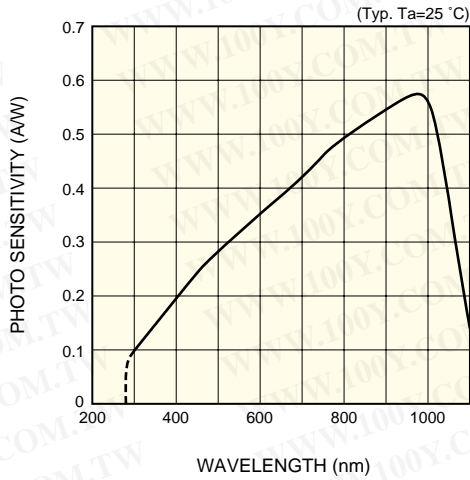
Type No.	Dimensional outline/ Window material *	Package (mm)	Active area size (mm)	Effective active area (mm ²)	Absolute maximum ratings		
					Reverse voltage VR Max. (V)	Operating temperature Topr (°C)	Storage temperature Tstg (°C)
S2387-16R	①/R	2.7 × 15	1.1 × 5.9	6.4	30	-20 to +60	-20 to +80
S2387-33R	②/R	6 × 7.6	2.4 × 2.4	5.7			
S2387-66R	③/R	8.9 × 10.1	5.8 × 5.8	33			
S2387-1010R	④/R	15 × 16.5	10 × 10	100			
S2387-130R	⑤/R	3.0 × 40	1.2 × 29.1	35			

■ Electrical and optical characteristics (Typ. Ta=25 °C, unless otherwise noted)

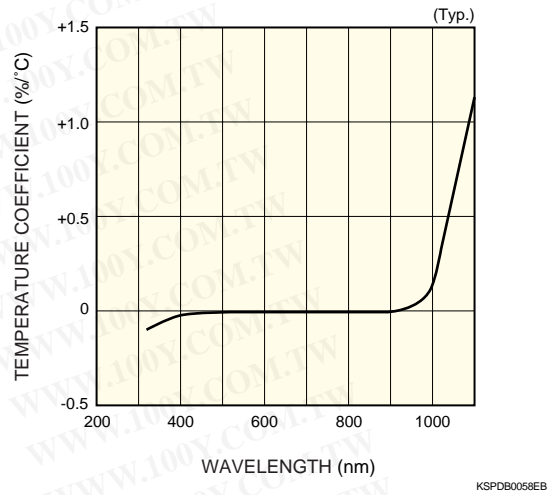
Type No.	Spectral response range λ (nm)	Peak sensitivity wavelength λ_p (nm)	Photo sensitivity S (A/W)			Short circuit current Isc 100 lx		Dark current ID VR=10 mV Max. (pA)	Temp. coefficient of ID TCID (times/°C)	Rise time tr VR=0 V RL=1 kΩ (μs)	Terminal capacitance Ct VR=0 V f=10 kHz (pF)	Shunt resistance Rsh VR=10 mV		NEP (W/Hz ^{1/2})
			λ_p	GaP LED 560 nm	He-Ne laser 633 nm	Min. (μA)	Typ. (μA)					Min. (GΩ)	Typ. (GΩ)	
S2387-16R	320 to 1100	960	0.58	0.33	0.37	4.4	6.0	5	1.12	1.8	730	2	50	9.9×10^{-16}
S2387-33R						4.4	5.8							
S2387-66R						24	31	50		0.05	5			
S2387-1010R						68	91	200						
S2387-130R						25	32	100		0.1	20			

* Window material, R: resin coating

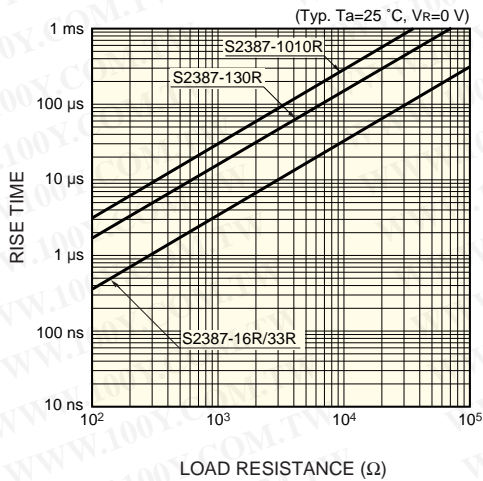
■ Spectral response



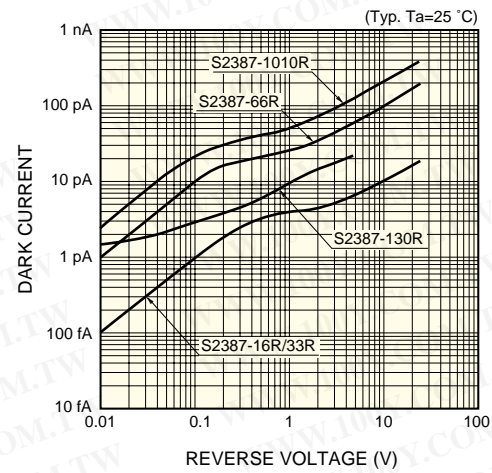
■ Photo sensitivity temperature characteristic



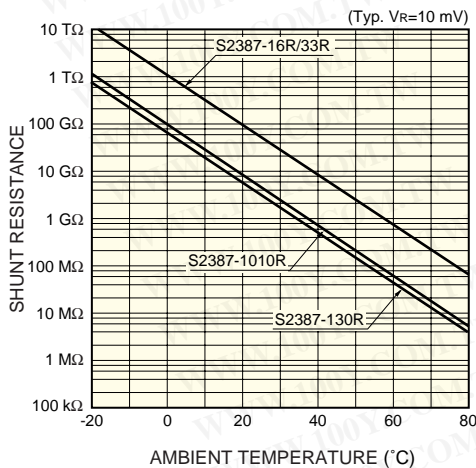
■ Rise time vs. load resistance



■ Dark current vs. reverse voltage



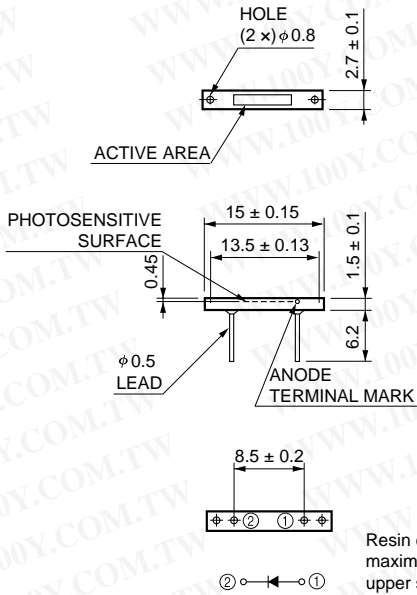
■ Shunt resistance vs. ambient temperature



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

■ Dimensional outlines (unit: mm)

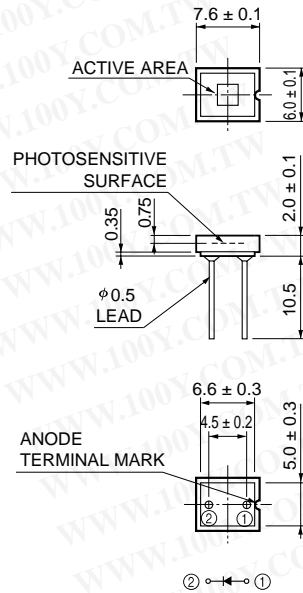
① S2387-16R



Resin coating may extend a maximum of 0.1 mm above the upper surface of the package.

KSPDA0106EA

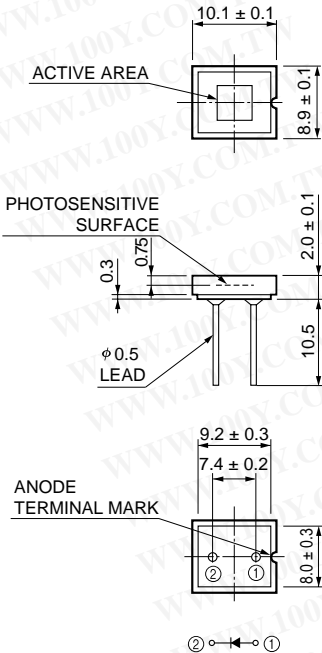
② S2387-33R



Resin coating may extend a maximum of 0.1 mm above the upper surface of the package.

KSPDA0108EA

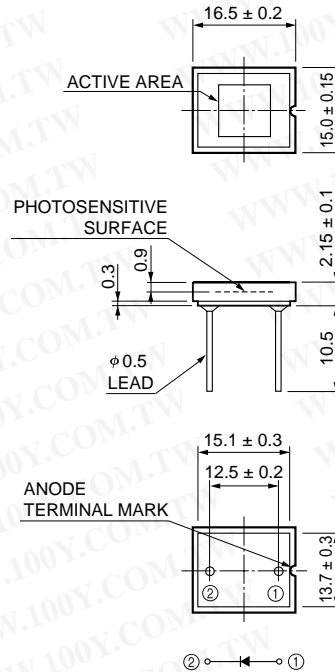
③ S2387-66R



Resin coating may extend a maximum of 0.1 mm above the upper surface of the package.

KSPDA0110EA

④ S2387-1010R

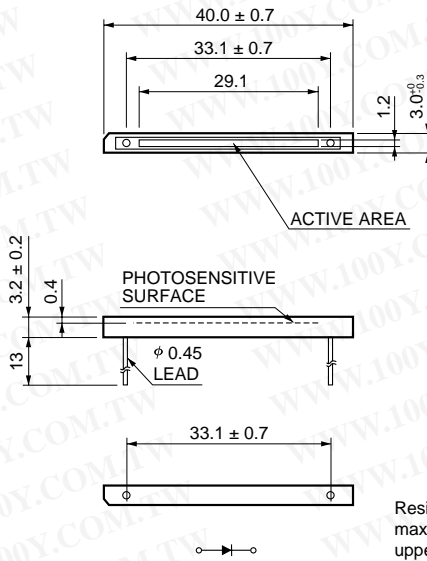


Resin coating may extend a maximum of 0.1 mm above the upper surface of the package.

KSPDA0112EA

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

⑤ S2387-130R



KSPDA0117EA

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)