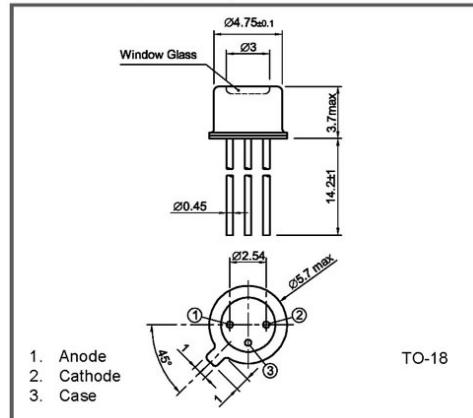


Si PIN Photodiodes KPID020D

■ Features

- 2GHz response with 200 μ m active diameter
- 0.4GHz response with 500 μ m active diameter
- Low dark current (Typ.10pA @ VR=3V)
- Low voltage operation
- Various package options are also available
[Package option](#)

Dimensions (unit: mm)



■ Applications

- Short wavelength optical communication
- Optical measurement
- Optical sensors

■ Specifications

▼ Absolute Maximum Ratings

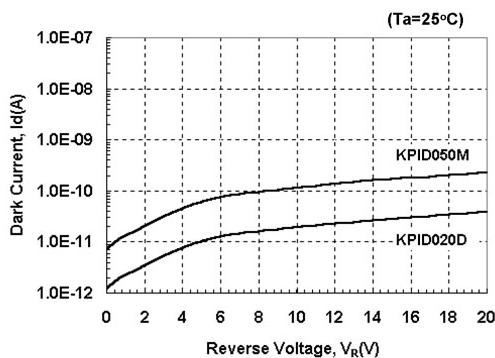
Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V _R	50	V	
Reverse Current	I _R	10	mA	
Forward current	I _F	1	mA	
Operating temperature	T _{opr}	-40 to +85		Avoid dew condensation
Storage temperature	T _{stg}	-40 to +85		Avoid dew condensation
Soldering temperature	T _{sol}	260		Soldering time less than 5 seconds

▼ Electrical and Optical characteristics

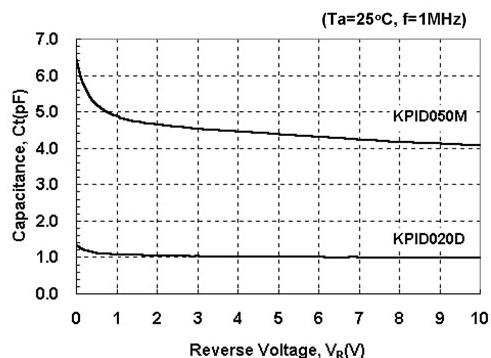
Parameter	Symbol	Value			Unit	Conditions
		Min.	Typ.	Max		
Sensitive size	D		200		μ m	
Sensitive wavelength		400		1000	nm	
Responsivity	R		0.35		A/W	V _R =3V, =850nm
Dark current	I _D		10	40	pA	V _R =3V
Total capacitance	C _t		1.2	1.6	pF	V _R =3V, f=1MHz
Cutoff frequency	f _c		2.0		GHz	R _L =50 , V _R =3V

KPID020D/KPID050M

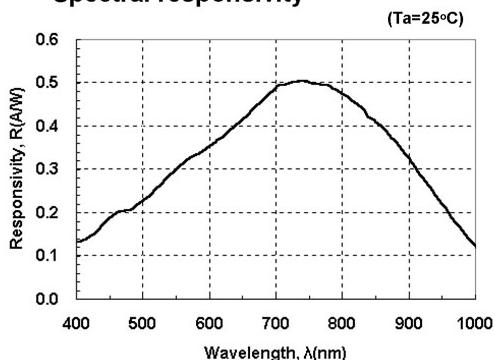
I-V characteristics



C-V characteristics



Spectral responsivity



Kyosemi Corporation

(0905/KPID020D, KPID050M)