

EIPD (Edge Illuminated InGaAs PD)

Features

- Edge illuminated type for surface hybrid integration
- Low dark current
- High reliability

Applications

- Laser back light power monitor
- FTTH digital optical communication
- Optical interconnection

Dimensions (unit: mm)

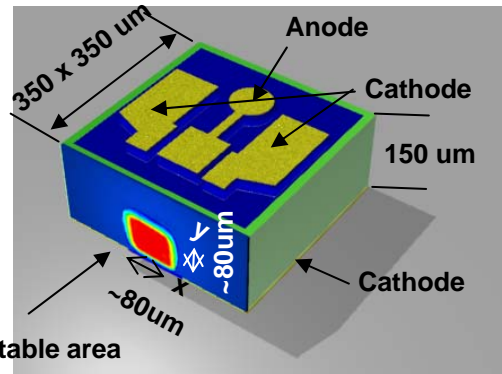


Photo detectable area

Specifications

Absolute Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse voltage	V_R	20	V
Maximum optical poewer input	P_{max}	10	mW
Forward current	I_F	10	mA
Operating temperature	T_{opr}	-40 to +85	°C
Storage temperature	T_{stg}	-50 to +125	°C

Electrical and Optical characteristics ($V_R=-5V$, Ta=25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Dark Current	I_D	--	35	300	pA	
Total apacitance	C		0.7 (0.6)	0.9 (0.8)	pF	f=1MHz
Responsivity	R	0.6	0.7	--	A/W	$\lambda=1310nm, Pin=-10dBm$
		0.7	0.8	--		$\lambda=1550nm, Pin=-10dBm$
Bandwidth	BW	1.5 (0.8)	2.0 (1.5)	---	GHz	$\lambda=1550nm, Pin=-10dBm$

(): for KPEIMO -GC 100

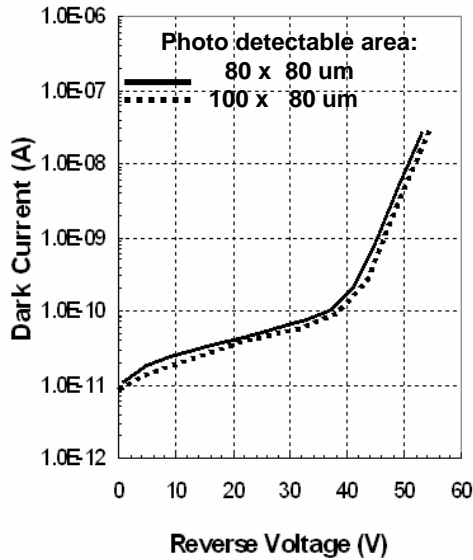
Die dimension

Parameter	Specification	Torelance	Unit	Note
Cjip size	350 x 350	+/- 25	um	
Chip height	150	+/- 20		
Photo-detectable area	{x,y} = 80, 80 (100, 80)	+/- 10		1dB down

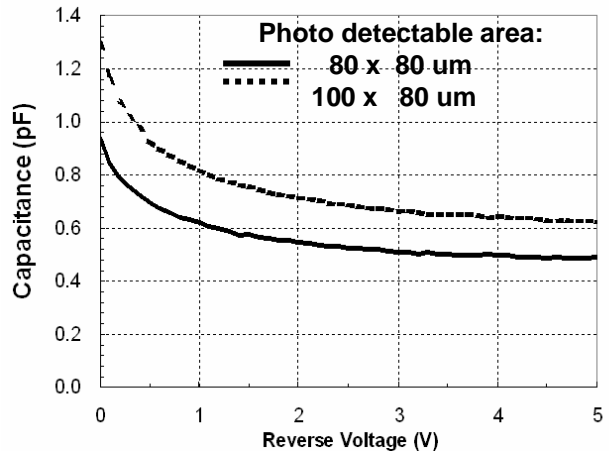
(): for KPEIMO -GC 100

Specifications are subject to change without notice.

Dark current



Dark current



Frequency response

Photo detectable area: 80 x 80 um

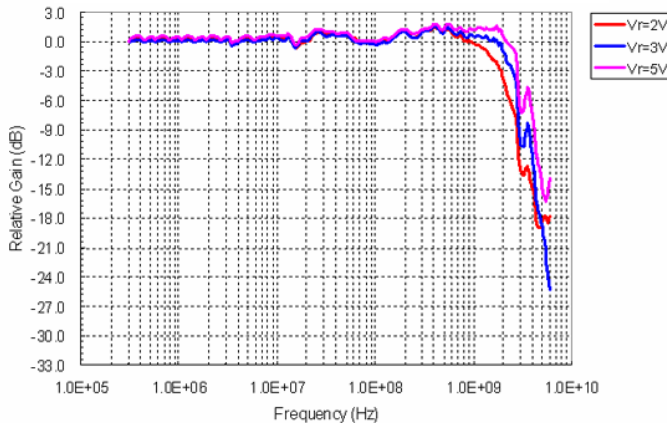
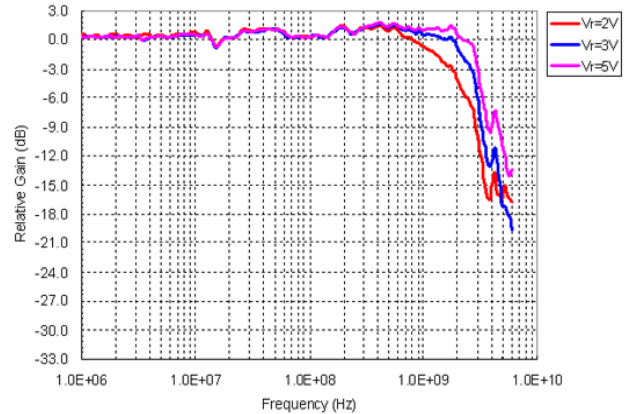


Photo detectable area: 100 x 80 um



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