KP-E Edge Illuminated InGaAs Photodiodes KPEIMC-UDCOM

Characteristics

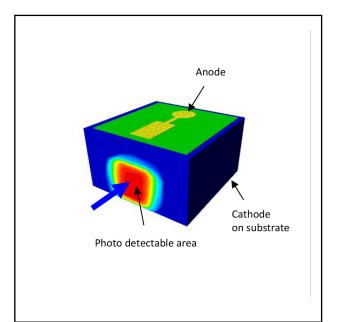
- Edge illuminated type for surface hybrid integration
- Large aperture (100x120µm)
- Low dark current
- High reliability

Applications

- Laser back light power monitors
- Optical interconnection
- FTTH digital optical communications

Package

• CHIP





Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V _R	20	V	-
Maximum optical power input	P _{imax}	10	mW	-
Forward current	I _F	10	mA	-
Operating temperature	T _{opr}	-40 to +85		Avoid dew condensation
Storage temperature	T _{stg}	-40 to +85		Avoid dew condensation

Electrical and Optical characteristics (T

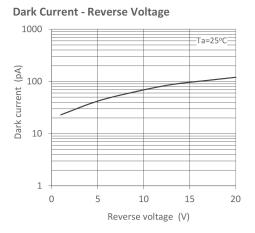
(Ta=25 unless otherwise noted)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Sensitive wavelength		900	-	1700	nm	-
Bandwidth	BW	0.8	1.5	-	GHz	P_i =-10dBm V_R =5V small signal modulation
Responsivity	R	0.5 0.65	0.55 0.75	-	A/W	V_R =5V =1310nm P _i =-10dBm V_R =5V =1550nm P _i =-10dBm
Dark current	I _D	-	50	300	pА	V _R =5V
Chip capacitance	C _{chip}	-	2	5	pF	V _R =5V f=1MHz

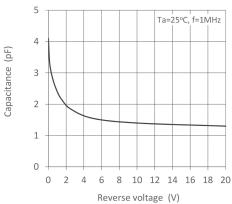
Pigtail Specifications characteristics

Parameter	Spefication	Tolerance	Unit	Conditions
Chip size	450 x 450	+/- 25	μm	-
Chip height	250	+/- 20	μm	-
Photo detectable area	100 x 120	+/- 10	μm	-

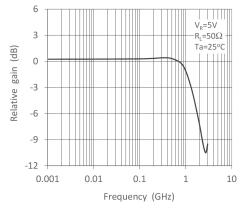














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