

KP-A InGaAs Avalanche Photodiodes

KPDEA007-56F

InGaAs avalanche photodiode 5.6mm CAN package with flat window cap

Characteristics

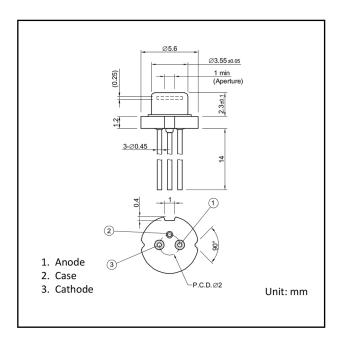
- High speed (Up to 1.25Gbps)
- Low dark current
- High sensitivity

Applications

- SONET
- GE-PON

Package

• TO-CAN





Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Reverse Current	I _R	2	mA	-
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(Ta=25 unless otherwise noted)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Active area	D	ı	0.075	-	mm	-
Bandwidth	BW	ī	2.0	-	GHz	M=10
Responsivity	R	0.80 0.90	0.90 1.05	-	A/W	=1310nm, M=1 =1550nm, M=1
Dark current	I _D	-	15	65	nA	V _R =VB x 0.9
Breakdown voltage	V _B	35	45	55	V	I _D =10μA
Temperature coefficient of VB	V _B / T	0.08	0.1	0.12	V/	-
Chip capacitance	C _{chip}	-	0.54	0.65	pF	f=1MHz
Total capacitance	C _t	-	0.9	1.1	pF	f=1MHz



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