

GaAs Photodiodes

KPDG008-H8

Characteristics

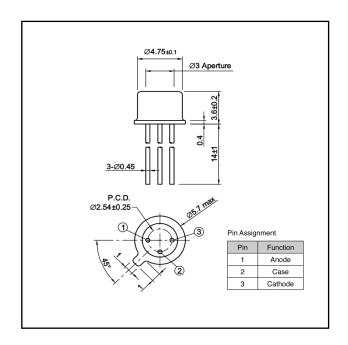
- Low capacitance and high speed with a PIN structure
- Low dark current
- High reliability
- Pigtail type available as an option

Applications

- Digital and analog optical VSR communications
- Optical LAN
- OE converters

Package

• TO-CAN





Absolute Maximum Ratings

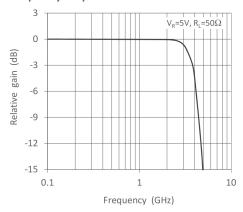
Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V_R	20	V	-
Maximum optical power input	P _{imax}	10	mW	-
Operating temperature	T _{opr}	-40 to +85		Avoid dew condensation
Storage temperature	T _{stg}	-40 to +85		Avoid dew condensation

Electrical and Optical characteristics (Ta=25 unless otherwise noted)

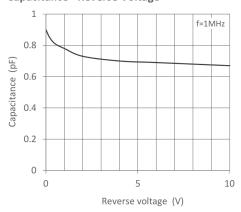
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Active area	S	-	80	-	μm	-
Sensitive wavelength		650	-	880	nm	-
Bandwidth	BW	3.5	4	-	GHz	V _R =5V R _L =50 Pin=-10dBm small signal modulation
Responsivity	R	0.50	0.55	-	A/W	V _R =5V =850nm
Dark current	I _D	-	30	160	pA	V _R =5V
Chip capacitance	C _{chip}	-	0.4	0.5	pF	V _R =5V f=1MHz
Total capacitance	C _t	-	0.95	1.1	pF	V _R =5V f=1MHz



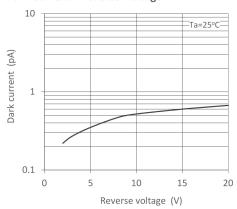
Frequency Response



Capacitance - Reverse Voltage



Dark Current - Reverse Voltage





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