KP-M InGaAs Photodiodes for Monitoring KPDE008-S

Characteristics

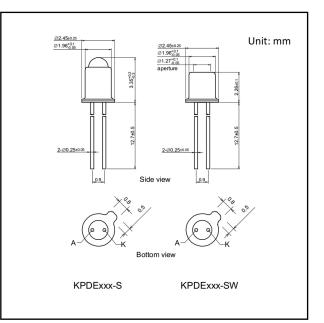
- Isolated pins from can (body)
- Small size for high density packaging
- Low capacitance and high speed with a PIN structure
- Low dark current
- High reliability
- Pigtail type available as an option
- Window cap type available (-SW)

Applications

- Digital and analog optical communications
- Optical LAN
- OTDR

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	-
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	S	-	80	-	μm	-
Sensitive wavelength		900	-	1700	nm	-
Bandwidth	BW	-	2	-	GHz	$R_L=50$ $P_i=-10dBm V_R=5V$
Responsivity	R	0.8 0.9	-	-	A/W	V_{R} =5V =1310nm V_{R} =5V =1550nm
Dark current	I _D	-	-	160	pА	V _R =5V
Total capacitance	Ct	-	-	1.1	pF	V _R =5V f=1MHz



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