

Point Source LEDs

KED050CXH

Characteristics

- High reliability and long life
- 50µm emitting area

Applications

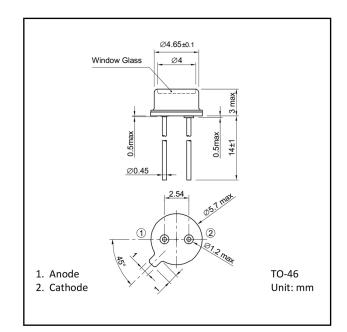
- High speed optical sensors
- Optical encoders

Chip Material

• GaAlAs

Package

• TO-CAN





Absolute Maximum Ratings

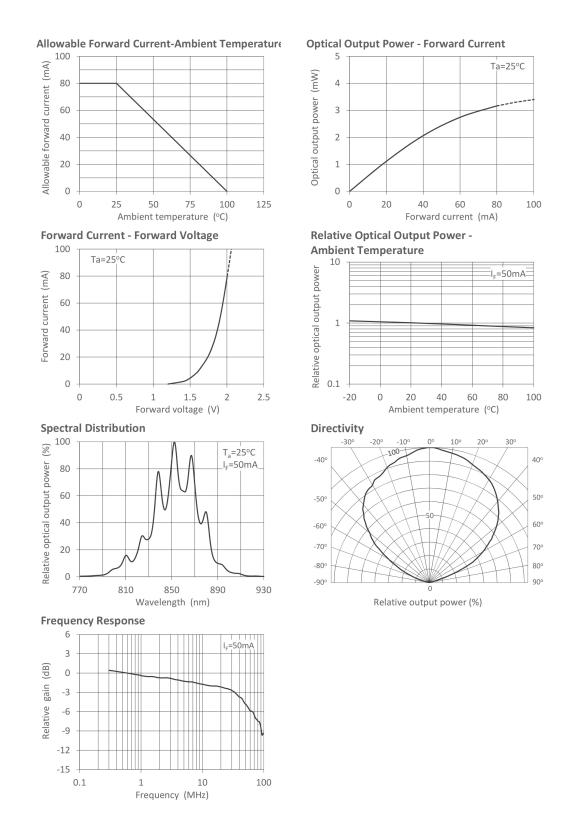
Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V _R	3	V	
			null	
Forward current	I _F	80	mA	- T _a =25
			null	
Operating temperature	T _{opr}	-20 to +100		Avoid dew condensation
Storage temperature	T _{stg}	-30 to +100		Avoid dew condensation

Electrical and Optical characteristics

(Ta=25 unless otherwise noted)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Reverse Current	I _R	-	-	10	μA	V _R =3V
Forward voltage	V _F	-	1.9	2.4	V	I _F =50mA
					null	
Optical output power	Po	-	2.4	-	mW	I _F =50mA
					null	
Peak wavelength	р	-	855	-	nm	I _F =50mA
					null	
Half angle	2	-	115	-	deg.	I _F =50mA
					null	
Cutoff frequency	f _c	-	32	-	MHz	I _F =50mA







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