

# Point Source LEDs

## KED050CXH

### Characteristics

- High reliability and long life
- 50µm emitting area

### Applications

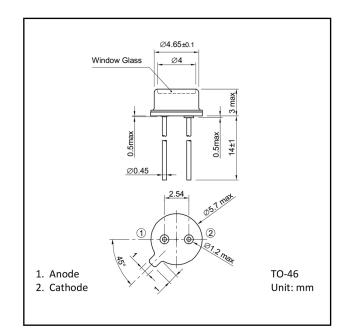
- High speed optical sensors
- Optical encoders

### **Chip Material**

• GaAlAs

### Package

• TO-CAN





### Absolute Maximum Ratings

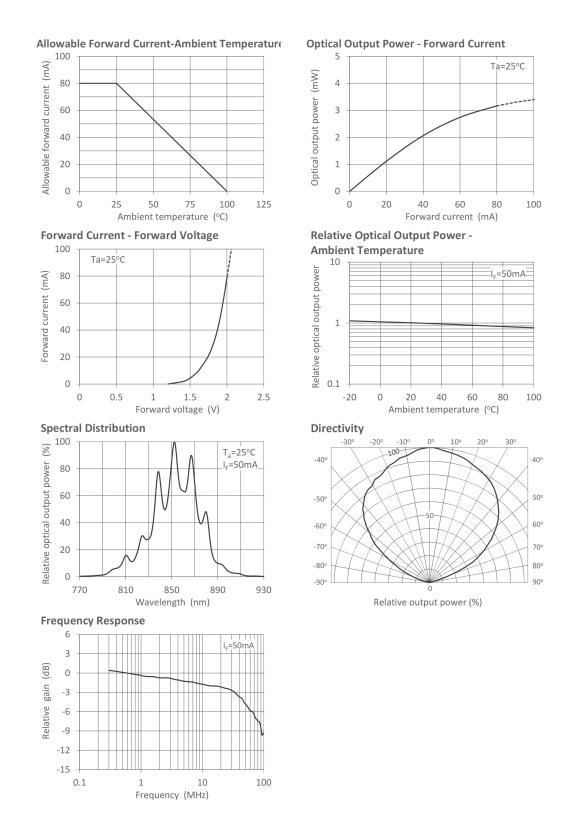
Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V <sub>R</sub>	3	V	
			null	
Forward current	I <sub>F</sub>	80	mA	- T <sub>a</sub> =25
			null	
Operating temperature	T <sub>opr</sub>	-20 to +100		Avoid dew condensation
Storage temperature	T <sub>stg</sub>	-30 to +100		Avoid dew condensation

Electrical and Optical characteristics

(Ta=25 unless otherwise noted)

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







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