

Infrared LEDs

KED050CX-T

Characteristics

- Wavelength 850nm
- Multi-mode fiber pigtail
- High efficiency
- High reliability

Applications

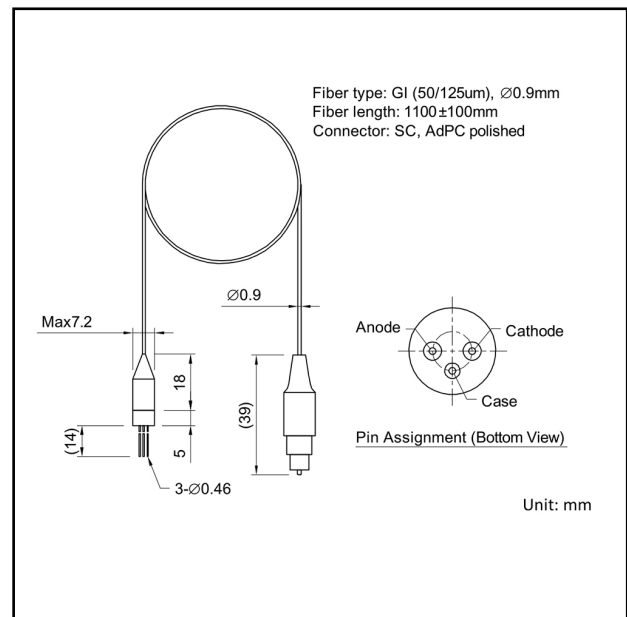
- Short range optical communications
- Optical sensors

Chip Material

- GaAlAs

Package

- PIGTAIL



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 +80		Avoid dew condensation
Storage temperature	T_{stg}	-30 to +85		Avoid dew condensation

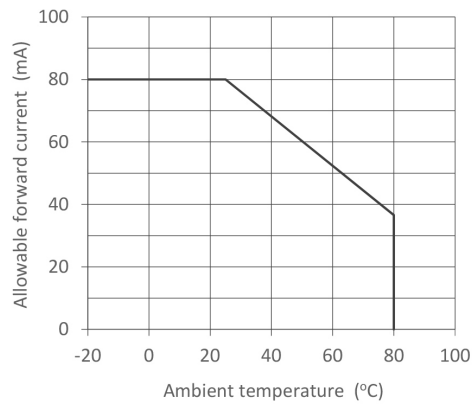
Electrical and Optical characteristics ($T_a=25^\circ$ unless otherwise noted)

Parameter	Symbol	Min.	Typ.	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	P_O	-	-16	-	mW	$I_F=50mA$
					null	
Peak wavelength	λ_p	-	855	-	nm	$I_F=50mA$
					null	
Cutoff frequency	f_c	-	32	-	MHz	$I_F=50mA$

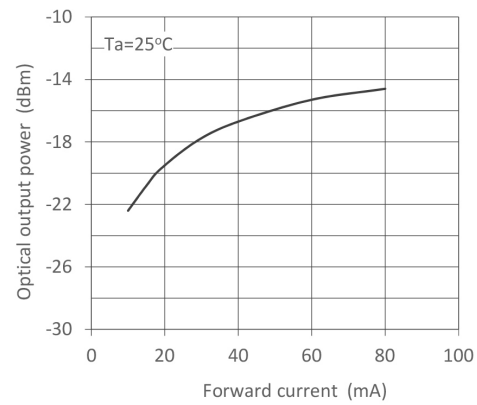
Pigtail Specifications characteristics

Parameter	Specifcation	Unit	Conditions
Optical fiber type	GI (50/125 μm)	null	0.9mm
Optical connector	SC connector	null	AdPC polished
Optical fiber length	1100 \pm 100	mA	Including connector

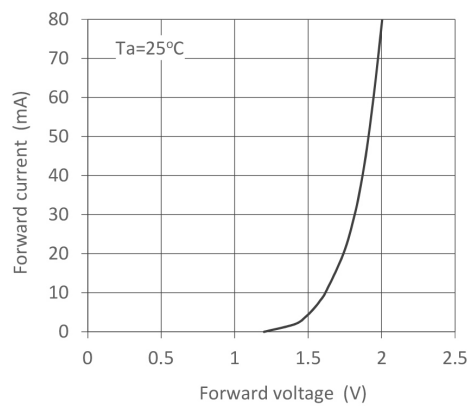
Allowable Forward Current-Ambient Temperature



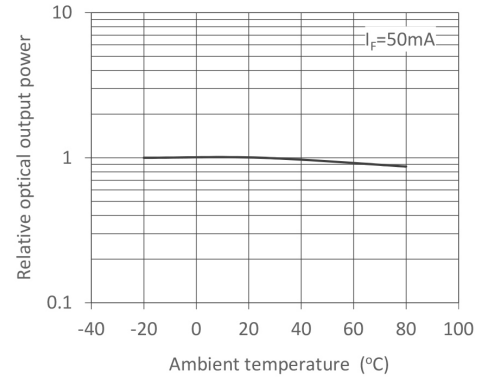
Optical Output Power - Forward Current



Forward Current - Forward Voltage



Relative Optical Output Power - Ambient Temperature



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