

Infrared LEDs

KEDE1652H

Characteristics

- p=1650nm
- High output power
- Sharp directivity with a glass lens
- Highly reliable hermetic seal
- Direct modulation

Applications

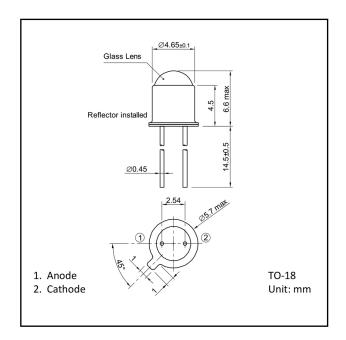
- Optical switches
- Optical instruments
- Methane gas sensor

Chip Material

• InGaAsP

Package

• TO-CAN





Absolute Maximum Ratings

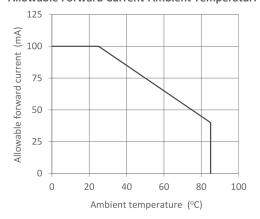
Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V_R	5	٧	-
Forward current	I _F	100	mA	T _a =25
Peak forward current	I _{FP}	1.0	А	Pulse width=100µs Duty ratio=0.1%
Power dissipation	P _D	130	mW	T _a =25
Operating temperature	T _{opr}	-30 to +85		Avoid dew condensation
Storage temperature	T _{stg}	-40 to +100		Avoid dew condensation

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

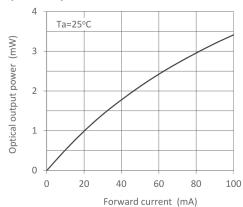
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Reverse Current	I _R	-	-	10	μΑ	V _R =1V
Forward voltage	V _F	-	0.75	1.3	V	I _F =50mA
Optical output power	Po	-	2.0	-	mW	I _F =50mA
Peak wavelength	р	1600	1650	1700	nm	I _F =50mA
Spectral width		-	150	-	nm	I _F =50mA
Half angle	2	-	20	-	deg.	I _F =50mA



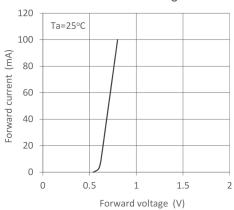
Allowable Forward Current-Ambient Temperature



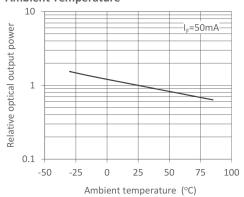
Optical Output Power - Forward Current



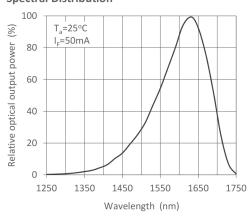
Forward Current - Forward Voltage



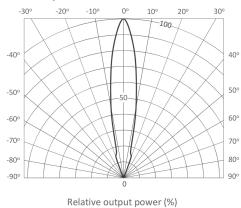
Relative Optical Output Power - Ambient Temperature



Spectral Distribution



Directivity





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