

Plastic Mold Infrared LEDs

KEDE1451M52

Characteristics

- High output power
- Sharp directivity
- Direct modulation

Applications

- Optical switches
- Optical instruments
- Water sensors
- Humidity analysis

Chip Material

• InGaAsP

Package

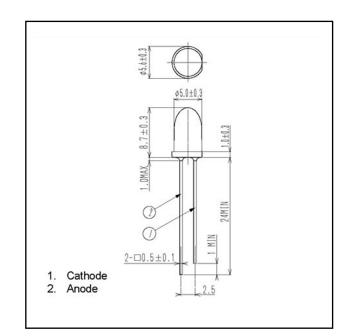
• MOLD

Diameter

• 5mm

Resin Type

• clear





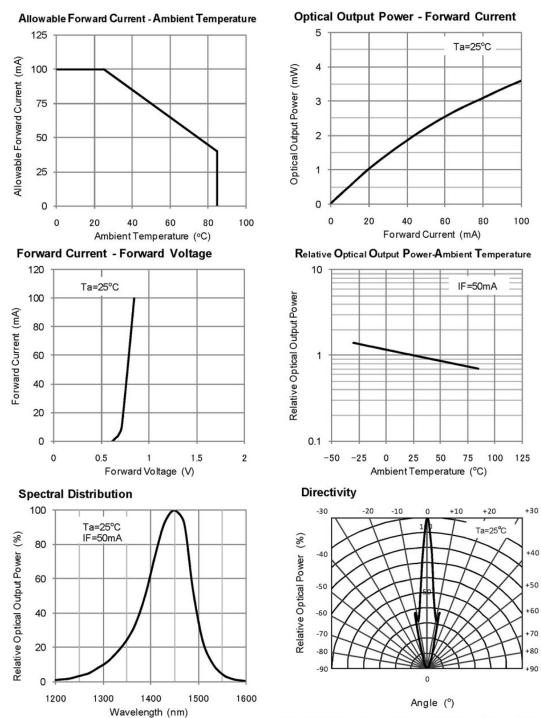
Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V _R	3	V	-
Forward current	I _F	100	mA	-
Peak forward current	I _{FP}	1	A	Pulse width=100µs Duty ratio=1%
Power dissipation	P _D	130	mW	-
Operating temperature	T _{opr}	-30 to +85		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 =1V
Forward voltage	V _F	-	0.8	1.3	V	I _F =50mA
Optical output power	Po	-	2.2	-	mW	I _F =50mA
Peak wavelength	р	1400	1450	1500	nm	I _F =50mA
Spectral width		-	100	-	nm	I _F =50mA
Half angle	2	-	10	-	deg.	I _F =50mA





Specifications are subject to change without notice.



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