

Plastic Mold Infrared LEDs KEDE1451M52

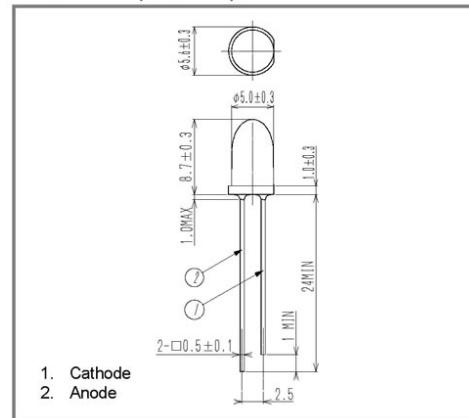
■ Features

- High output power
- Sharp directivity
- Direct modulation

■ Applications

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

Dimensions (unit: mm)



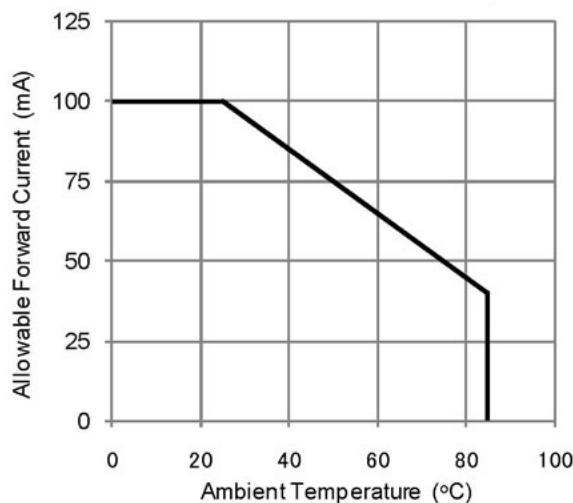
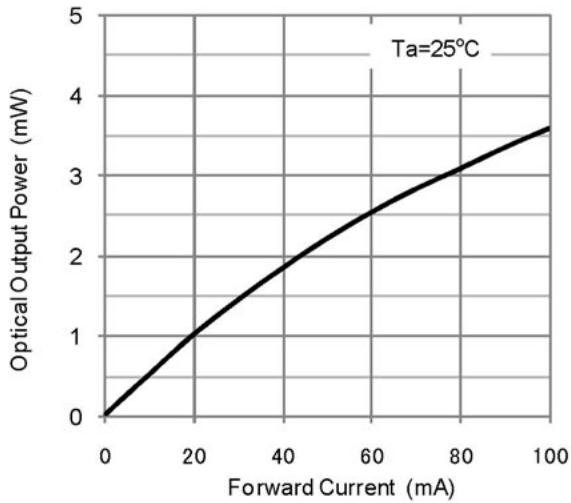
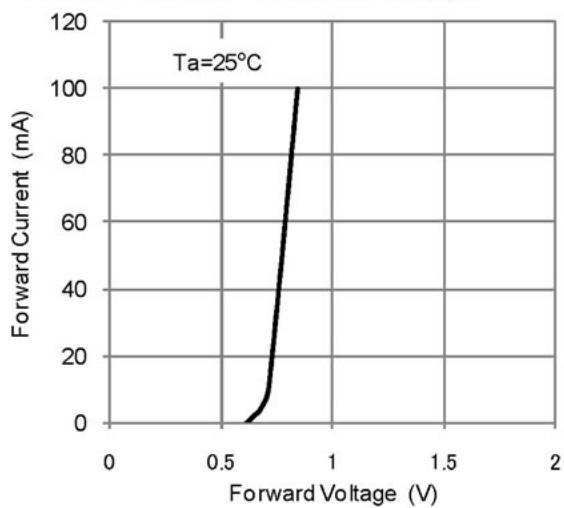
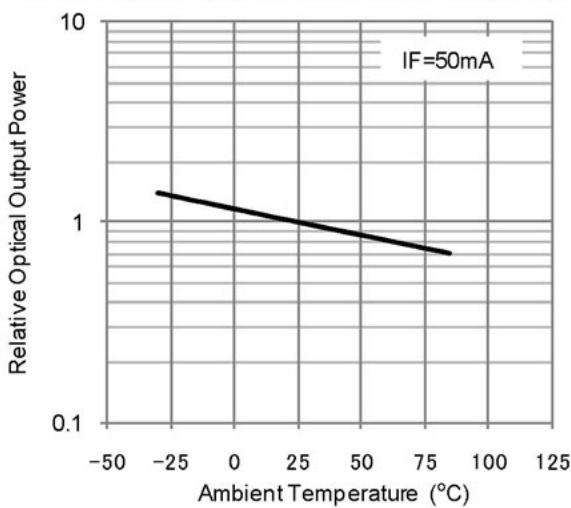
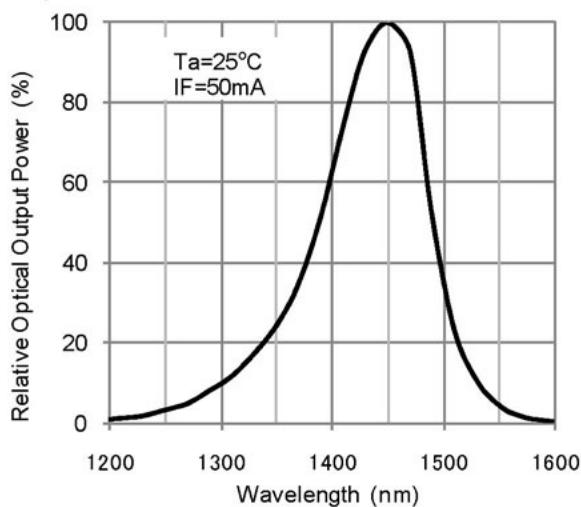
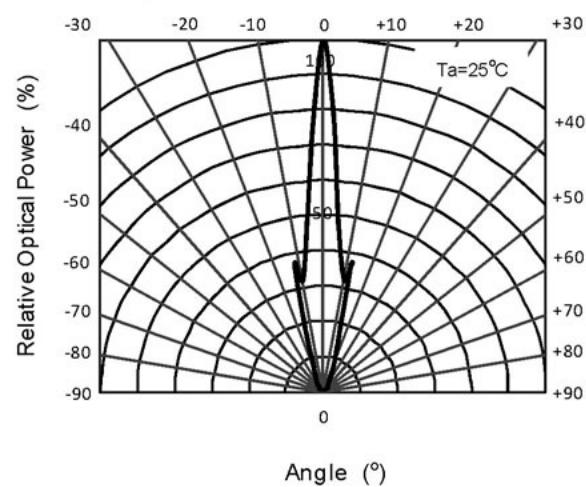
■ Specifications

● Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Forward current	I _F	100	mA	
Peak forward current	I _{FP}	1	A	Puls width=100μs, Duty ratio=1%
Reverse voltage	V _R	3	V	
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

Parameter	Symbol	Value			Unit	Conditions
		Min.	Typ.	Max		
Forward voltage	V _F		0.8	1.3	V	I _F =50mA
Reverse Current	I _R			10	μA	V _R =1V
Optical output power	P _O		2.2		mW	I _F =50mA
Peak wavelength	λ	1400	1450	1500	nm	I _F =50mA
Spectral width			100		nm	I _F =50mA
Half angle	2		10		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


Specifications are subject to change without notice.