

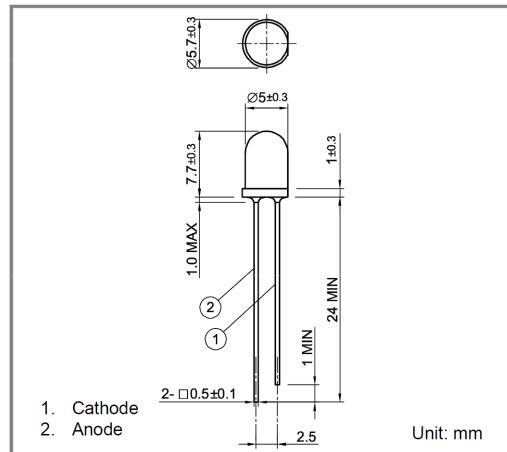
Plastic Mold Infrared LEDs KED941M51B

Features

- Transparent epoxy mold
- Direct modulation

Applications

- Optical switches
- Optical instruments
- Automatic control apparatus



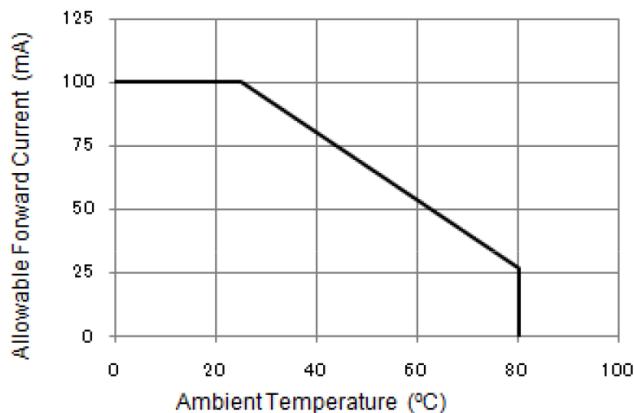
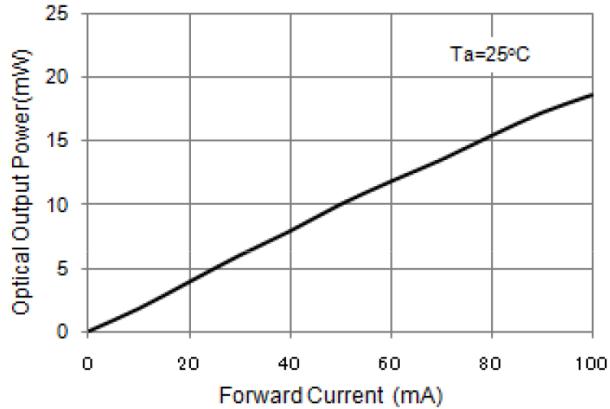
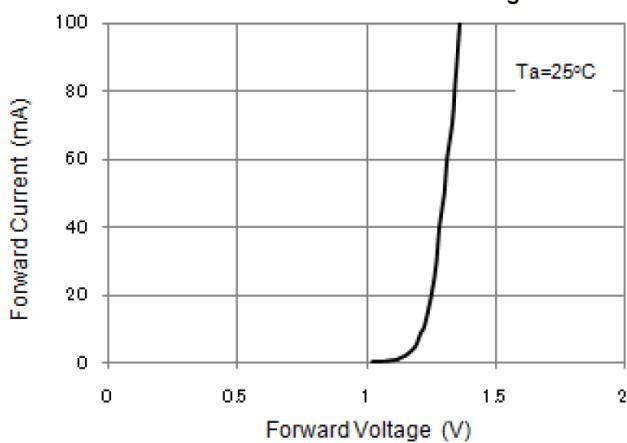
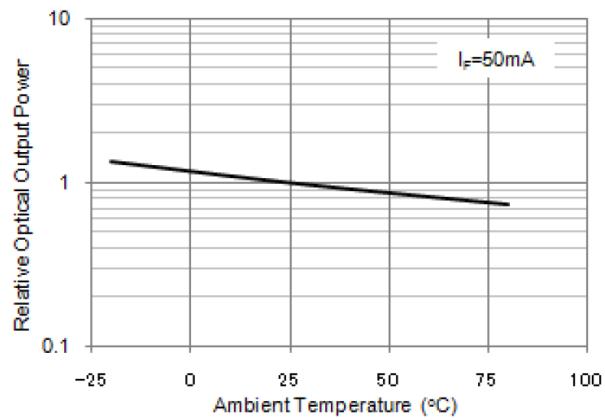
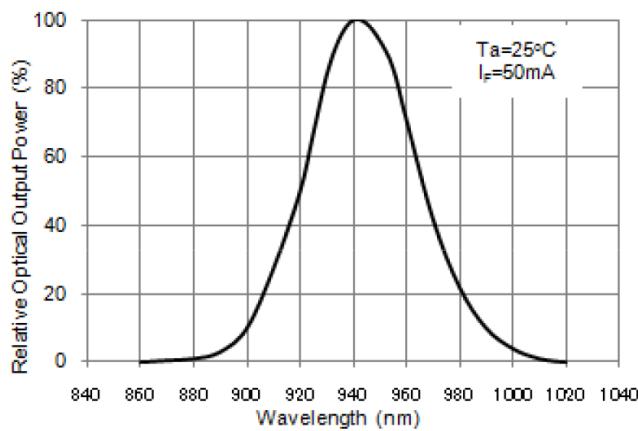
■ Specifications

● 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	6	V	
Power dissipation	P _D	150	mW	
Operating temperature	T _{opr}	-20 to +80		Avoid dew condensation
Storage temperature	T _{stg}	-30 to +100		Avoid dew condensation
Soldering temperature	T _{sol}	260		Soldering time less than 5 seconds

● Electrical and Optical characteristics

Parameter	Symbol	Value			Unit	Conditions
		Min.	Typ.	Max		
Forward voltage	V _F		1.3	1.6	V	I _F =50mA
Reverse Current	I _R			10	μA	V _R =6V
Optical output power	P _O		10		mW	I _F =50mA
Peak wavelength	λ		940		nm	I _F =50mA
Spectral width			50		nm	I _F =50mA
Half angle	2		28		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
