

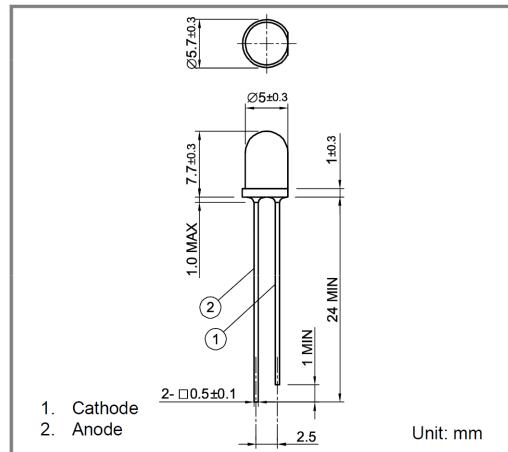
## Plastic Mold Infrared LEDs KED863M51

### Features

- Transparent epoxy mold
- High power:22mW
- High speed response:25ns rise time
- Direct modulation

### Applications

- Available for wireless digital transmission
- Optical switches
- Optical encoders
- Optical instruments
- Automatic control apparatus



### ■ Specifications

#### ● Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Forward current	I <sub>F</sub>	100	mA	
Peak forward current	I <sub>FP</sub>	1	A	Puls width=100μs, Duty ratio=1%
Reverse voltage	V <sub>R</sub>	5	V	
Power dissipation	P <sub>D</sub>	150	mW	
Operating temperature	T <sub>opr</sub>	-30 to +85		Avoid dew condensation
Storage temperature	T <sub>stg</sub>	-30 to +100		Avoid dew condensation
Soldering temperature	T <sub>sol</sub>	260		Soldering time less than 5 seconds

#### ● Electrical and Optical characteristics

Parameter	Symbol	Value			Unit	Conditions
		Min.	Typ.	Max		
Forward voltage	V <sub>F</sub>		1.5	1.8	V	I <sub>F</sub> =50mA
Reverse Current	I <sub>R</sub>			10	μA	V <sub>R</sub> =5V
Optical output power	P <sub>O</sub>		22		mW	I <sub>F</sub> =50mA
Peak wavelength	λ		865		nm	I <sub>F</sub> =50mA
Spectral width			40		nm	I <sub>F</sub> =50mA
Half angle	2		50		deg	I <sub>F</sub> =50mA
Rise time	t <sub>r</sub>		25		ns	I <sub>F</sub> =50mA
Fall time	t <sub>f</sub>		15		ns	I <sub>F</sub> =50mA

