

## Plastic Mold Visible LEDs KED591M31A

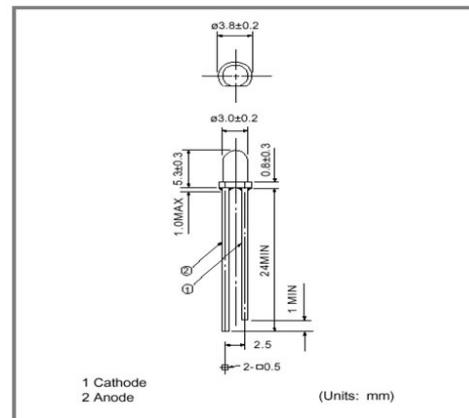
### ■ Features

- Transparent epoxy mold
- Direct modulation

### ■ Applications

- Optical switches
- Optical instruments
- Automatic control apparatus

**Dimensions**



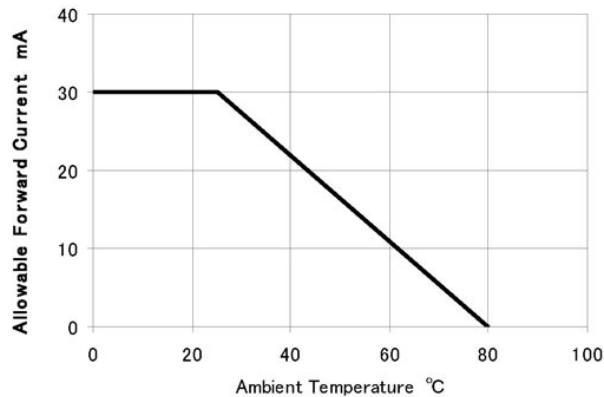
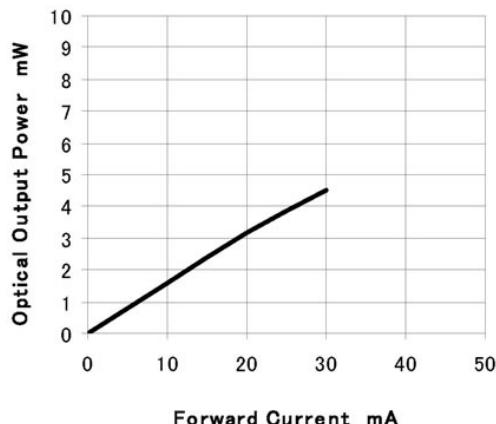
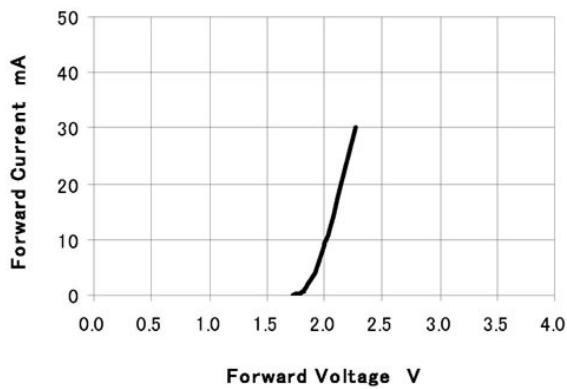
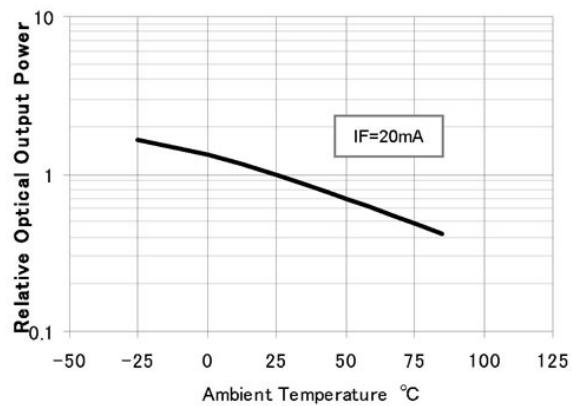
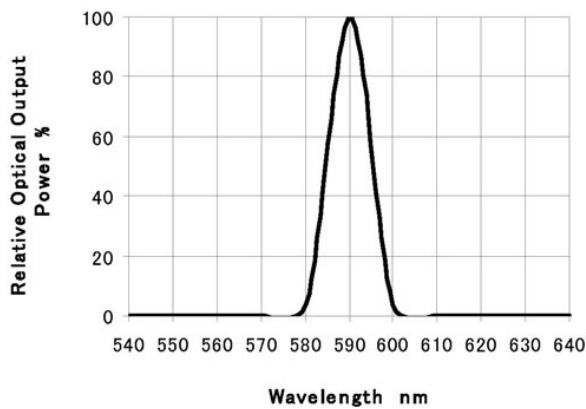
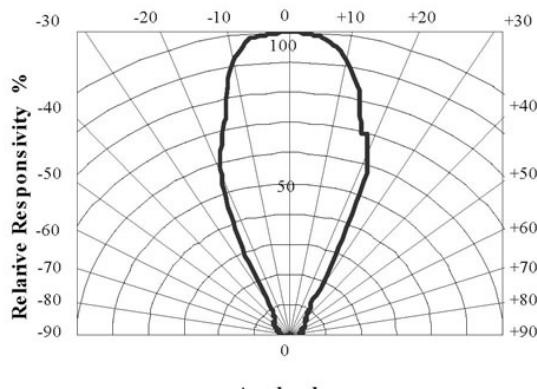
### ■ Specifications

#### ● Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Forward current	I <sub>F</sub>	30	mA	T <sub>a</sub> =25
Peak forward current	I <sub>FP</sub>	0.3	A	Pulse width=100μs, Duty ratio=1%
Reverse voltage	V <sub>R</sub>	5	V	
Power dissipation	P <sub>D</sub>	120	mW	
Operating temperature	T <sub>opr</sub>	-20 to +80		Avoid dew condensation
Storage temperature	T <sub>stg</sub>	-20 to +100		Avoid dew condensation

#### ● Electrical and Optical characteristics

Parameter	Symbol	Value			Unit	Conditions
		Min.	Typ.	Max		
Forward voltage	V <sub>F</sub>		2.2	2.5	V	I <sub>F</sub> =20mA
Reverse Current	I <sub>R</sub>			10	μA	V <sub>R</sub> =5V
Luminous Intensity Iv	LV		1800		mcd	I <sub>F</sub> =20mA
Optical output power	P <sub>O</sub>		3.2		mW	I <sub>F</sub> =20mA
Peak wavelength	λ		590		nm	I <sub>F</sub> =20mA
Spectral width			15		nm	I <sub>F</sub> =20mA
Half angle	2		44		deg	I <sub>F</sub> =20mA

**Allowable Forward Current – Ambient temperature**

**Optical Output Power – Forward Current (Ta=25°C)**

**Forward Current – Forward Voltage (Ta=25°C)**

**Relative Optical Output Power – Ambient Temperature**

**Spectral Distribution (Ta=25°C, IF=20mA)**

**Directivity (Ta=25°C)**


Specifications are subject to change without notice.