

Plastic Mold Visible LEDs

KED591M31A

Characteristics

- Transparent epoxy mold
- Direct modulation

Applications

- Optical switches
- Optical instruments
- Automatic control apparatus

Emitting Color

Yellow

Chip Material

• GaAlAs

Package

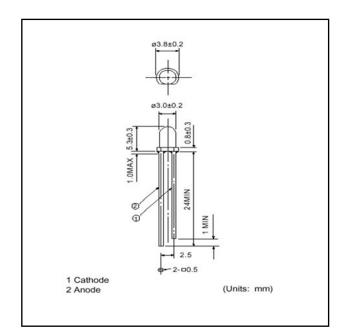
• MOLD

Diameter

• 3mm

Resin Type

• clear





Absolute Maximum Ratings

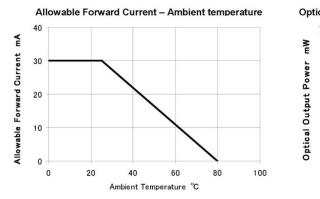
Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V _R	5	V	
				-
Forward current	I _F	30	mA	T _a =25
Peak forward current	I _{FP}	0.3	А	Pulse width=100µs
				Duty ratio=1%
Power dissipation	P _D	120	mW	
Operating temperature	T _{opr}	-20 to +80		Avoid dew condensation
Storage temperature	T _{stg}	-20 to +100		Avoid dew condensation

Electrical and Optical characteristics

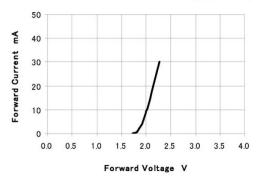
(T_a=25 unless otherwise noted)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Reverse Current	I _R	-	-	10	μA	V _R =5V
Forward voltage	V _F	-	2.2	2.5	V	I _F =20mA
Luminous Intensity	I_V	-	1800	-	mcd	I _F =20mA
Optical output power	Po	-	3.2	-	mW	I _F =20mA
Peak wavelength	р	-	590	-	nm	I _F =20mA
Spectral width		-	15	-	nm	I _F =20mA
Half angle	2	-	44	-	deg.	I _F =20mA

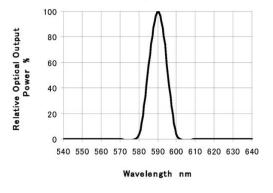




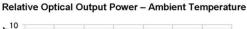


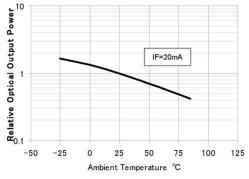


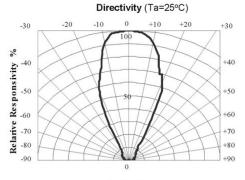
Spectral Distribution (Ta=25°C, IF=20mA)



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







Angle degree

Specifications are subject to change without notice.



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