

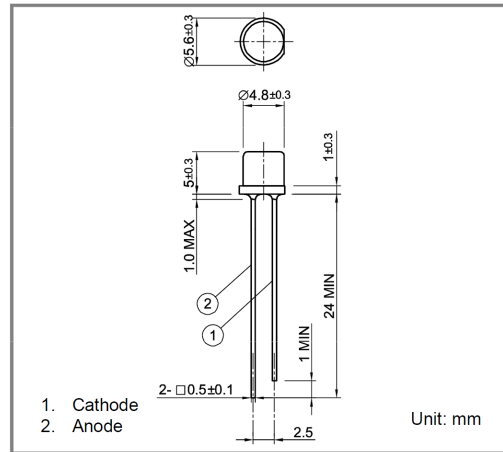
Plastic Mold Visible LEDs KED471M53A

Features

- Transparent epoxy mold
- Direct modulation

Applications

- Optical switches
- Optical instruments
- Automatic control apparatus



Specifications

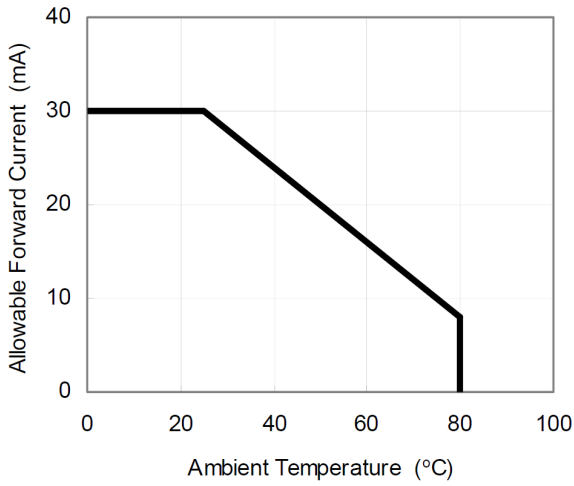
Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Forward current	I_F	30	mA	$T_a=25$
Peak forward current	I_{FP}	0.3	A	Puls width=100 μ s, Duty ratio=1%
Reverse voltage	V_R	5	V	
Power dissipation	P_D	120	mW	
Operating temperature	T_{opr}	-20 to +80		Avoid dew condensation
Storage temperature	T_{stg}	-30 to +100		Avoid dew condensation

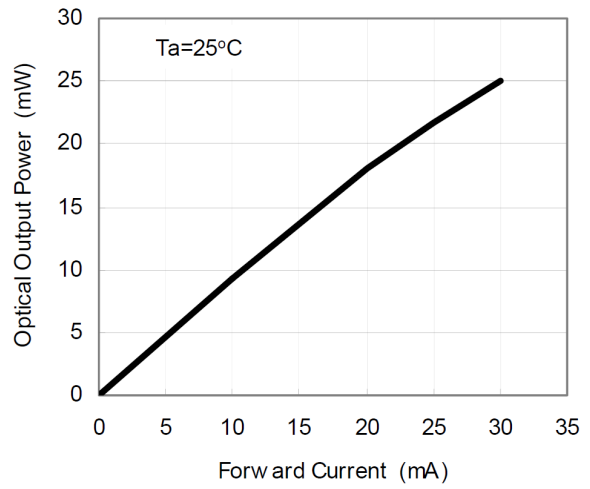
Electrical and Optical characteristics

Parameter	Symbol	Value			Unit	Conditions
		Min.	Typ.	Max		
Forward voltage	V_F		3.0	4.0	V	$I_F=20$ mA
Reverse Current	I_R			10	μ A	$V_R=5$ V
Optical output power	P_O		18		mW	$I_F=20$ mA
Peak wavelength	ρ		465		nm	$I_F=20$ mA
Spectral width			25		nm	$I_F=20$ mA
Half angle	2		115		deg	$I_F=20$ mA

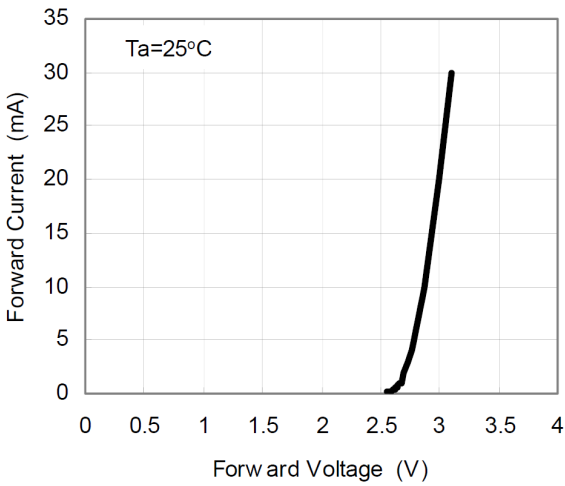
Allowable Forward Current - Ambient Temperature



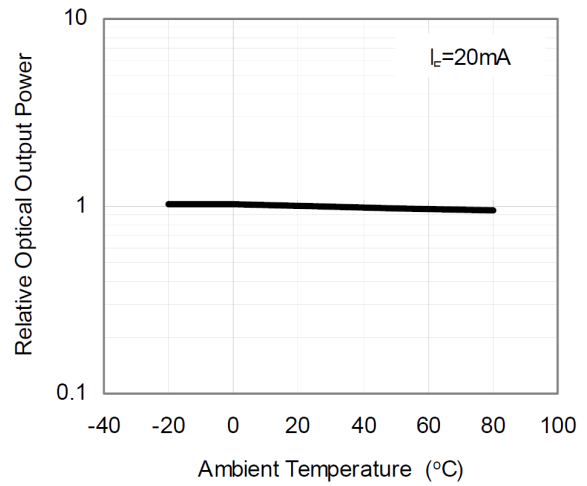
Optical Output Power - Forward Current



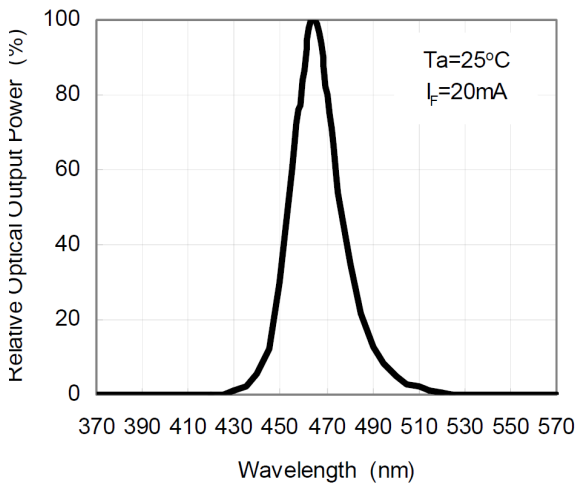
Forward Current - Forward Voltage



Relative Optical Output Power - Ambient Temperature



Spectral Distribution



Directivity

