Plastic Mold Infrared LEDs

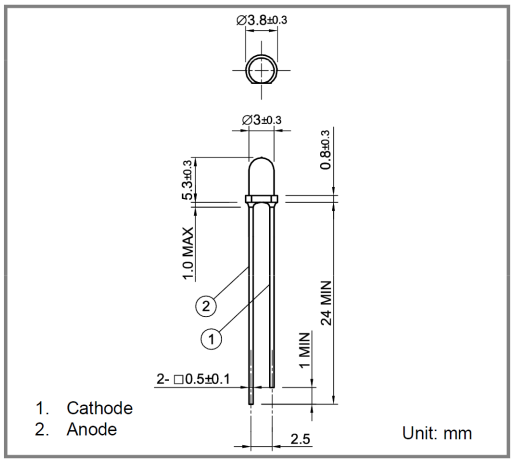
KED941M31B

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	5	V	
Power dissipation	P_D	150	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

Parameter	Symbol	Value			Unit	Conditions
		Min.	Typ.	Max		
Forward voltage	V_F		1.2	1.7	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	λp		940		nm	I_F=50mA
Spectral width	Δλ		50		nm	I_F=50mA
Half angle	2θ		32		deg	I_F=50mA

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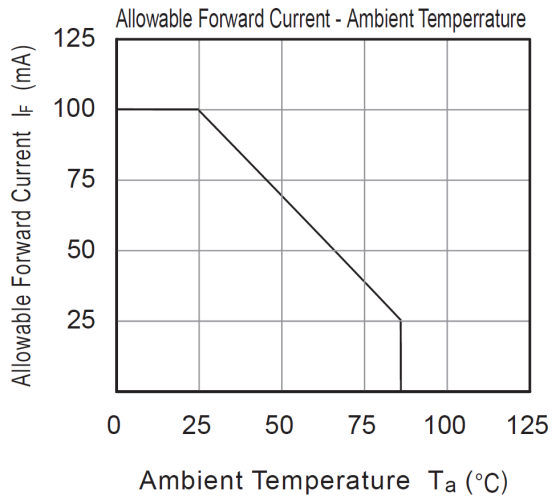

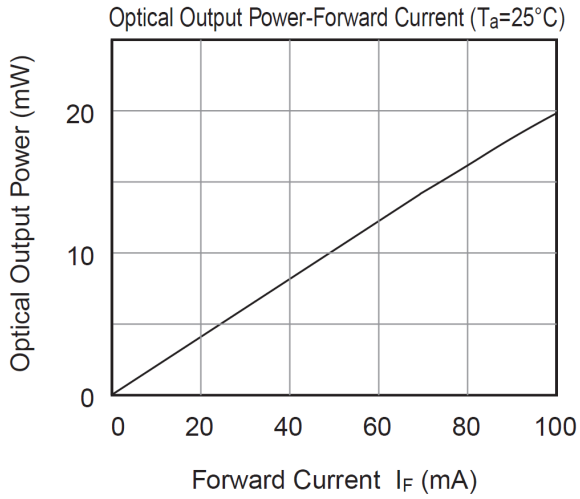

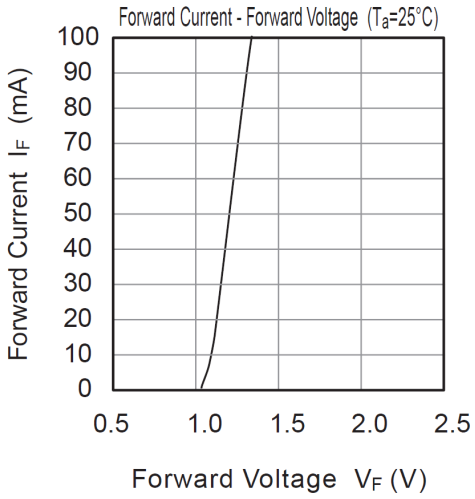

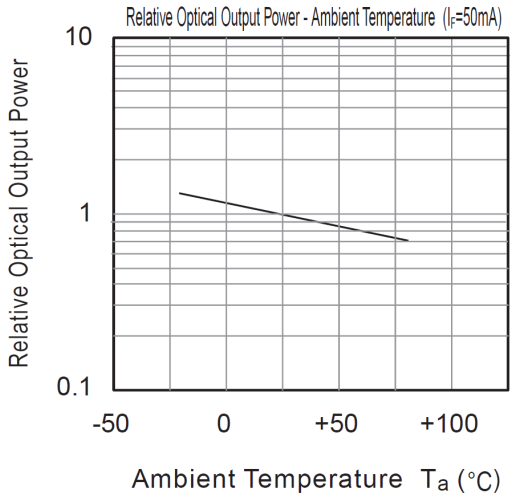

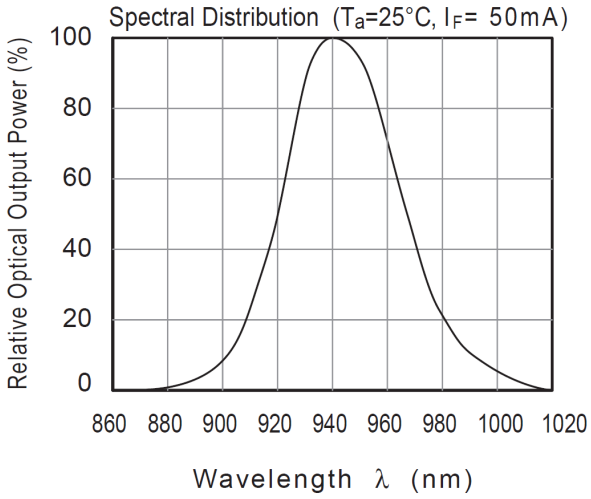

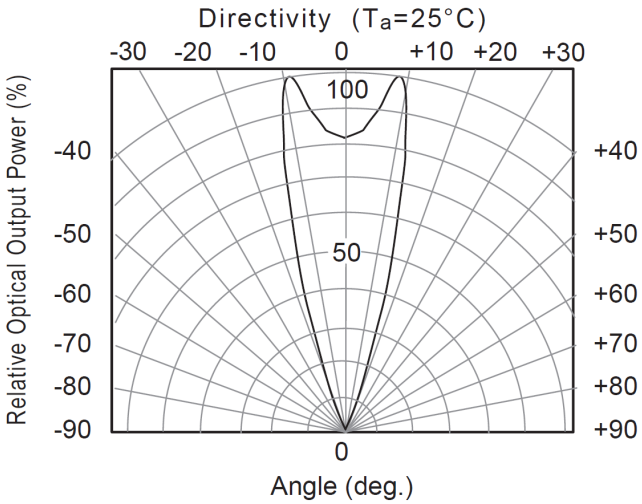

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