

Plastic Mold Infrared LEDs

KED941M31B

Characteristics

- Transparent epoxy mold
- Direct modulation

Applications

- Optical switches
- Optical instruments
- Automatic control apparatus

Chip Material

- GaAlAs

Package

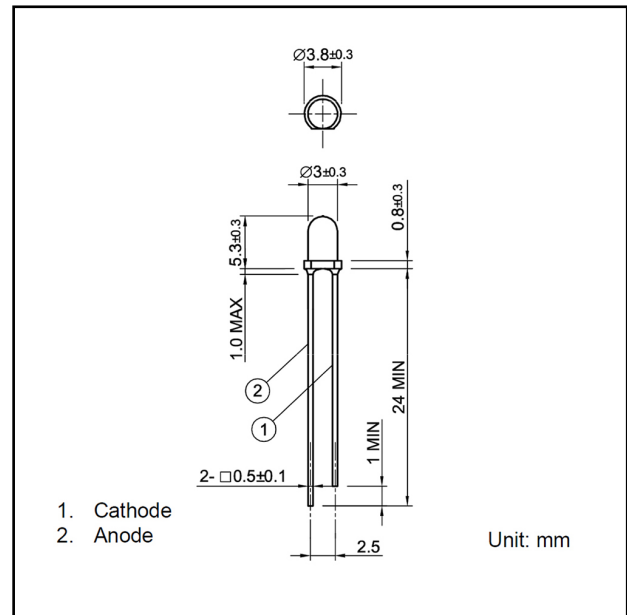
- MOLD

Diameter

- 3mm

Resin Type

- clear

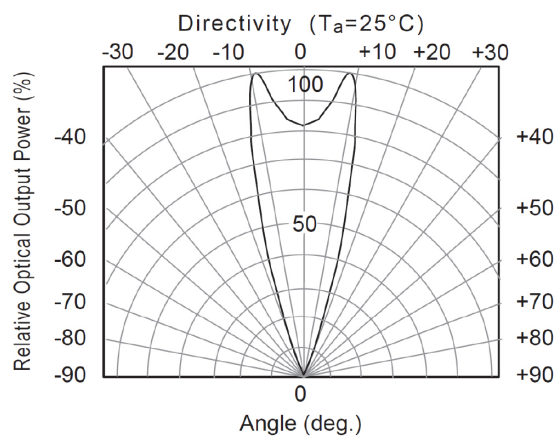
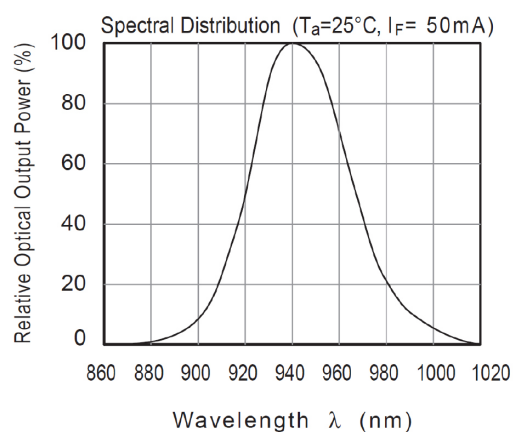
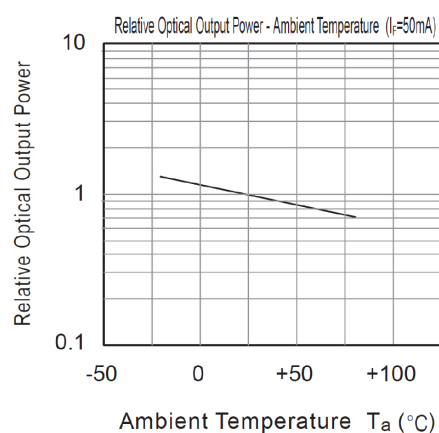
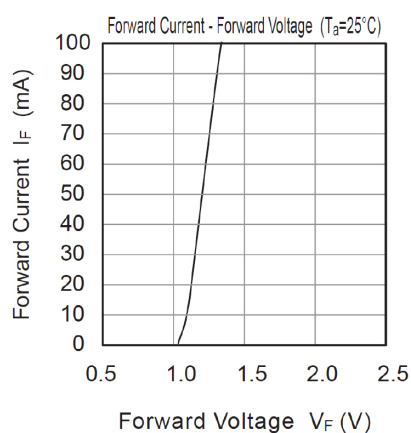
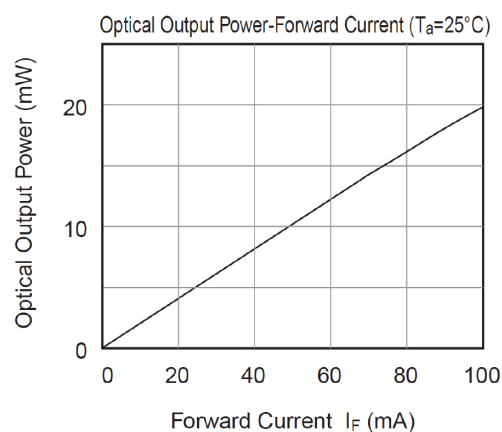
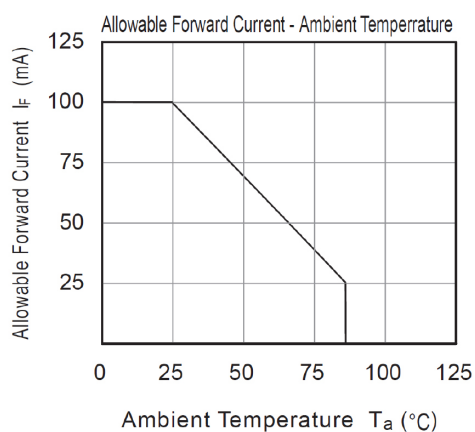


Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V_R	5	V	-
			null	
Forward current	I_F	100	mA	-
			null	
Peak forward current	I_{FP}	1	A	Pulse width=100μs Duty ratio=1%
			null	
Power dissipation	P_D	150	mW	-
			null	
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.	Typ.	Max.	Unit	Conditions
Reverse Current	I_R	-	-	10	μA	$V_R=6V$
Forward voltage	V_F	-	1.2	1.7	V	$I_F=50mA$
					null	
Optical output power	P_O	-	10	-	mW	$I_F=50mA$
					null	
Peak wavelength	λ_p	-	940	-	nm	$I_F=50mA$
					null	
Spectral width		-	50	-	nm	$I_F=50mA$
					null	
Half angle	2	-	32	-	deg.	$I_F=50mA$
					null	



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