

Plastic Mold Infrared LEDs

KED864M32

Characteristics

- Transparent epoxy mold
- High power:25mW
- High speed response:25ns rise time
- Direct modulation

Applications

- Available for wireless digital transmission
- Optical switches
- Optical encoders
- Optical instruments
- Automatic control apparatus

Chip Material

- GaAlAs

Package

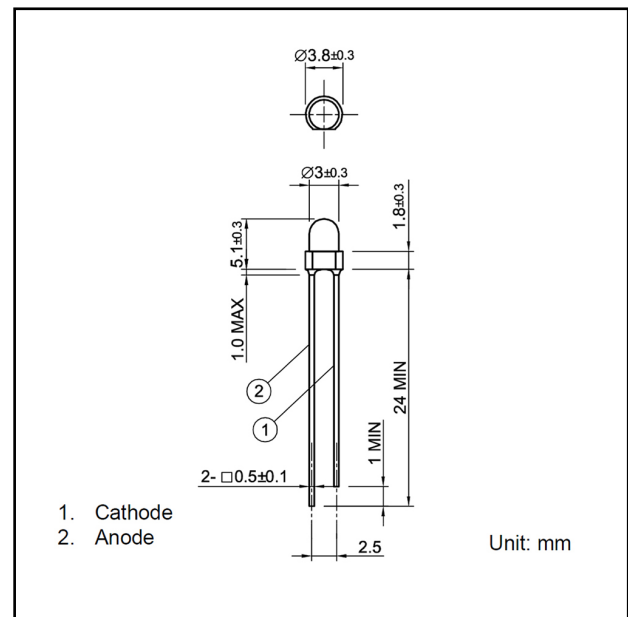
- MOLD

Diameter

- 3mm

Resin Type

- clear

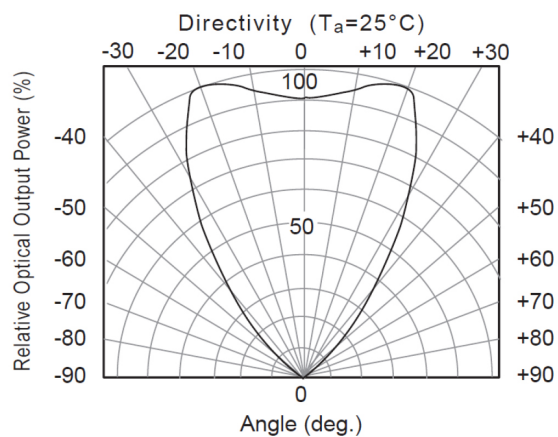
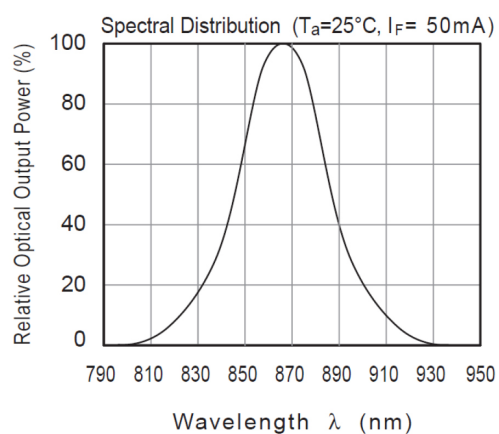
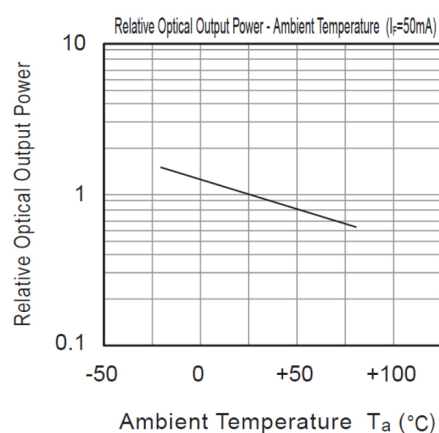
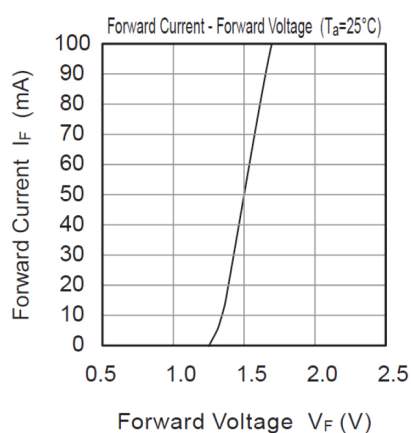
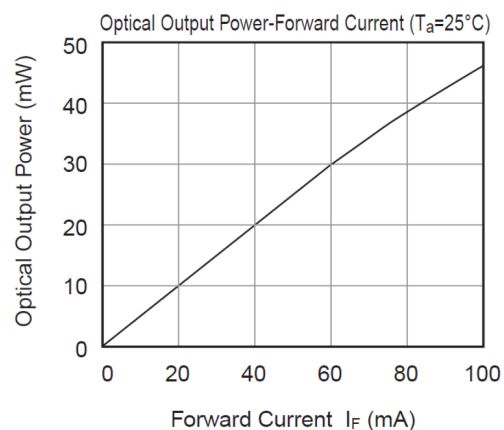
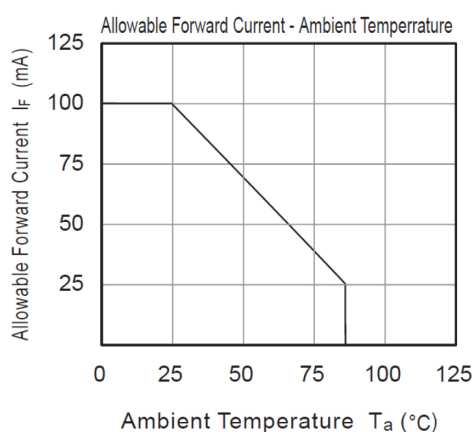


Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V_R	5	V	-
Forward current	I_F	100	mA	-
Peak forward current	I_{FP}	1	A	Pulse width=100μs Duty ratio=1%
Power dissipation	P_D	150	mW	-
Operating temperature	T_{opr}	-30 to +85		Avoid dew condensation
Storage temperature	T_{stg}	-30 to +100		Avoid dew condensation
Soldering temperature	T_{sol}	260		Soldering time less than 5 seconds

Electrical and Optical characteristics (T_a=25 unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Current	I_R	-	-	10	μA	$V_R=5V$
Forward voltage	V_F	-	1.5	1.8	V	$I_F=50mA$
Optical output power	P_O	-	25	-	mW	$I_F=50mA$
Peak wavelength	λ_p	-	865	-	nm	$I_F=50mA$
Spectral width		-	40	-	nm	$I_F=50mA$
Half angle	2	-	70	-	deg.	$I_F=50mA$
Rise time	t_r	-	25	-	ns	$I_F=50mA$
Fall time	t_f	-	15	-	ns	$I_F=50mA$



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