

Plastic Mold Infrared LEDs

KEDE1551M51

Characteristics

- High output power, p=1550nm
- Sharp directivity
- Direct modulation

Applications

- Optical switches
- Optical instruments

Chip Material

InGaAsP

Package

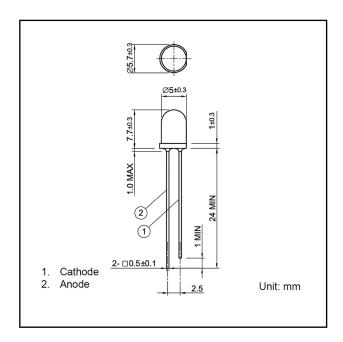
MOLD

Diameter

• 5mm

Resin Type

• clear





Absolute Maximum Ratings

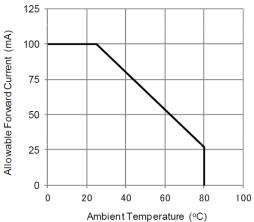
Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V_R	5	V	-
Forward current	I _F	100	mA	-
Peak forward current	I _{FP}	1	А	Pulse width=100µs Duty ratio=1%
Power dissipation	P _D	130	mW	-
Operating temperature	T _{opr}	-20 to +80		Avoid dew condensation
Storage temperature	T _{stg}	-30 to +100		Avoid dew condensation

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

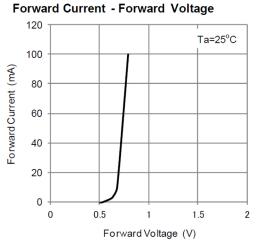
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Reverse Current	I _R	-	-	10	μA	V _R =1V
Forward voltage	V _F	-	0.75	1.3	V	I _F =50mA
Optical output power	Po	-	1.6	-	mW	I _F =50mA
Peak wavelength	р	1500	1550	1600	nm	I _F =50mA
Spectral width		-	120	-	nm	I _F =50mA
Half angle	2	-	50	-	deg.	I _F =50mA



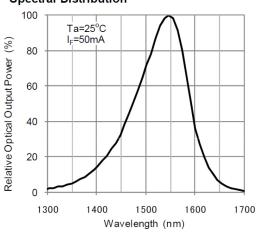
Allowable Forward Current - Ambient Temperature



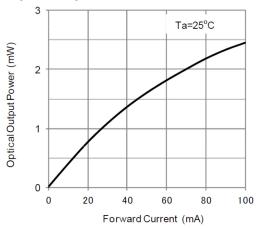
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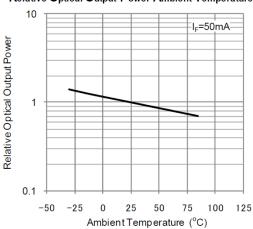
Spectral Distribution



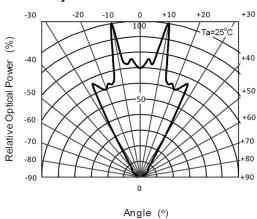
Optical Output Power - Forward Current



Relative Optical Output Power-Ambient Temperature



Directivity





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