

Infrared LEDs

KED602K

Characteristics

- Transparent epoxy lens
- High output power
- Broad directivity
- Direct modulation

Applications

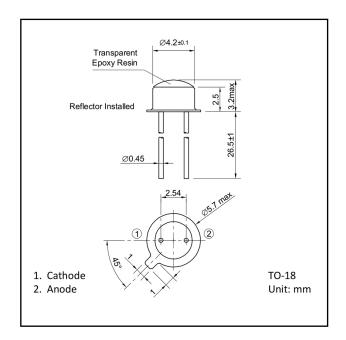
- Optical switches
- Optical encoders
- Optical instruments
- Automatic control apparatus
- Smoke sensors
- Photo-isolators

Chip Material

• GaAlAs

Package

• STEM





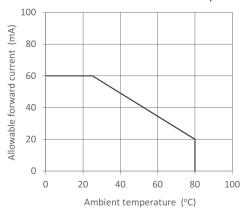
Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V _R	6	V	
				-
Forward current	I _F	60	mA	T _a =25
Peak forward current	I _{FP}	1.0	Α	Pulse width=100µs Duty ratio=0.1%
Power dissipation	P _D	90	mW	- T _a =25
Operating temperature	T _{opr}	-20 to +80		Avoid dew condensation
Storage temperature	T _{stg}	-30 to +100		Avoid dew condensation

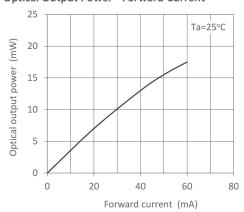
Electrical and Optical characteristics (T_a=25 unless otherwise noted)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Reverse Current	I _R	-	-	10	μA	V _R =6V
Forward voltage	\/		1.4	1.6	٧	I _F =50mA
Forward voltage	V _F	-	1.4	1.0		
Optical output power	P _O	-	15	-	mW	I _F =50mA
Dooleyyoyolonath		_	890	-	nm	I _F =50mA
Peak wavelength	р	-	090	-		
Spectral width		-	50	-	nm	I _F =50mA
Half angle	2	-	45	-	deg.	I _F =50mA
						I _F =30IIIA

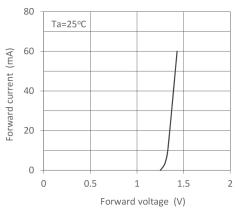
Allowable Forward Current-Ambient Temperature



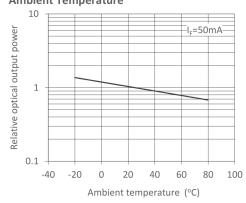
Optical Output Power - Forward Current



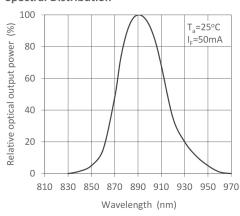
Forward Current - Forward Voltage



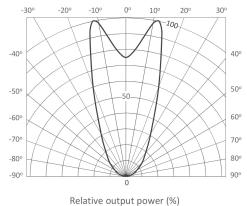
Relative Optical Output Power -Ambient Temperature



Spectral Distribution



Directivity





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