



Lead (Pb) Free Product – RoHS Compliant

LED1050-35xxx

High Power InGaAsP NIR LED

LED1050-35xxx is an InGaAsP LED mounted on a metal stem and covered with epoxy resin or glass lens can.

On forward bias, it emits a spectral band of radiation, which peaks at 1050nm.

Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P _D	130	mW	T _a =25°C
Forward Current	I _F	100	mA	T _a =25°C
Pulse Forward Current	I _{FP}	1000	mA	T _a =25°C
Reverse Voltage	V _R	5	V	T _a =25°C
Operating Temperature	T _{OPR}	-20 ~ +90	°C	
Storage Temperature	T _{STG}	-30 ~ +100	°C	
Soldering Temperature	T _{SOL}	260	°C	

- ▶ Pulse Forward Current condition: Duty=1% and Pulse Width=1us.
- ▶ Soldering condition: Soldering condition must be completed within 3 seconds at 260°C

Electro-Optical Characteristics [T_a=25°C]

Type No.	Radiated Power at I _F =50mA [mW]			Viewing Half Angle [θ _{1/2}]
	Minimum	Typical	Maximum	
LED1050-35K00		1.0		± 50°
LED1050-35K42		1.5		± 6°
LED1050-35M00		1.5		± 50°
LED1050-35M32		1.5		± 15°
LED1050-35T52		1.0		± 55°

- ▶ Radiated Power is measured by Ando Optical Multi Meter AQ2140 & AQ2742



Outer dimension [mm]

