## LED1300-35xx High Power InGaAsP NIR LED

LED1300-35xx 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 1300 nm.

**Absolute Maximum Ratings** 

ltem	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	PD	120	mW	Ta=25°C
Forward Current	lF	100	mΑ	Ta=25°C
Pulse Forward Current	<b>I</b> FP	1000	mΑ	Ta=25°C
Reverse Voltage	VR	5	V	Ta=25°C
Operating Temperature	Topr	-20 ~ +90	°C	
Storage Temperature	Tstg	-30 ~ +100	°C	
Soldering Temperature	Tsol	260	°C	

<sup>‡</sup> Pulse Forward Current condition: Duty = 1% and Pulse Width = 1  $\mu$ s.

Electro-Optical Characteristics [Ta=25°C]

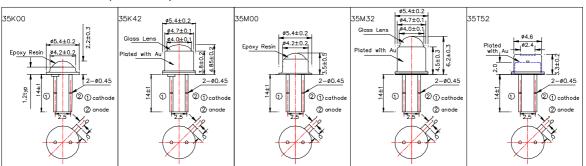
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	Ir=50mA		1.10	1.40	V
Reverse Current	lr	VR=5V			10	uA
Peak Wavelength	<b> </b> P	Ir=50mA	1250	1300	1350	nm
Half Width	DI	Ir=50mA		100		nm
Rise Time	tr	Ir=50mA		10		ns
Fall Time	tf	Ir=50mA		10		ns

Radiated Power [Ta=25°C]

Type No.	Radiated F	Viewing Half		
	Minimum	Typical	Maximum	Angle: Q1/2
L1300-35K00		1.8		±50°
L1300-35K42		2.0		±6°
L1300-35M00		3.0		±50°
L1300-35M32		3.0		±15°
L1300-35T52		1.6		±55°
			1 1/1 1 4 4 4 4 4	10 0 10 0 1 10

<sup>‡</sup> Radiated Power is measured by Ando Optical Multi Meter AQ2140 & AQ2742

## Outer dimension (Unit: mm)



<sup>‡</sup> Soldering condition: Soldering condition must be completed within 3 seconds at 260°C