L1550-35xx

High Power InGaAsP NIR LED

L1550-35xx 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 1550nm.

Absolute Maximum Ratings[Ta=25°C]							
Item	Symbol	Maximum Rated Value	Unit				
Power Dissipation	PD	120	mW				
Forward Current	IF	100	mA				
Pulse Forward Current*	IFP	1000	mA				
Reverse Voltage	VR	5	V				
Operating Temperature	TOPR	-20 ~ +90	C°				
Storage Temperature	TSTG	-30 ~+100	C°				
Soldering Temperature**	TSOL	260	°C				

* Duty=1% and Pulse Width=1µs

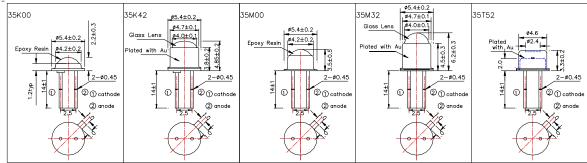
** Soldering condition must be completed within 3 second at 260 °C.

Electro-Optical Characteristics [Ta=25°C]								
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit		
Forward Voltage	VF	IF=50mA		1.10	1.40	V		
Reverse Current	IR	VR=5V			10	uA		
Peak Wavelength	λP	IF=50mA	1500	1550	1600	nm		
Half Width	Δλ	IF=50mA		100		nm		
Rise Time	tr	IF=50mA		10		ns		
Fall Time	tf	IF=50mA		10		ns		

Radiated Power[Ta=25°C]							
Type No.	Radiated Po	ower* at IF=50m	Viewing Lloff Apple (01/2)				
	Minimum	Typical	Maximum	Viewing Half Angle(θ1/2)			
L1550-35K00		1.6		\pm 50 $^{\circ}$			
L1550-35K42		2.0		$\pm 6^{\circ}$			
L1550-35M00		2.0		\pm 50 $^{\circ}$			
L1550-35M32		2.0		$\pm 15^{\circ}$			
L1550-35T52		1.2		$\pm 55^{\circ}$			

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

Outer dimension (Unit: mm)



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