

L910-40 _ _ _ High Power Metal Stem LED Lamp

The series of L910-40 _ _ _ is an GaAlAs LED mounted on a metal stem and covered with epoxy resin or hermetically sealed with $\Phi 5$ glass-lens can.

On forward bias it emits a high power radiation, which peaks at 910nm.

◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	PD	160	mW	Ta=25°C
Forward Current	IF	100	mA	Ta=25°C
Pulse Forward Current	IFP	500	mA	Ta=25°C
Reverse Voltage	VR	5	V	Ta=25°C
Operating Temperature	TOPR	-30 ~ +90	°C	Ta=25°C
Storage Temperature	TSTG	-30 ~ +100	°C	
Soldering Temperature	TSOL	260	°C	

‡Pulse Forward Current condition: Duty=1% and Pulse Width=10us.

‡Soldering condition: Soldering condition must be completed within 3 seconds at 260°C

◆ Electro-Optical Characteristics [Ta=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=50mA		1.45	1.70	V
Reverse Current	IR	VR=5V			10	uA
Peak Wavelength	λP	IF=50mA		910		nm
Half Width	$\Delta\lambda$	IF=50mA		60		nm
Rise Time	tr	IF=50mA		1000		ns
Fall Time	tf	IF=50mA		400		ns

◆ Total Radiant Power and Radiant Intensity at IF=50mA [Ta=25°C]

Type No.	...Total Radiant Power unit:mW...			...Radiant Intensity unit:mW/sr...			Viewing Half Angle
	Minimum	Typical	Maximum	Minimum	Typical	Maximum	
L910-40K00	5	8			2		±40°
L910-40K42	3	5			35		±6°
L910-40M00	6	9.5			4		±40°
L910-40M32	4.5	7.5			35		±10°
L910-40T52	2	3.5			2		±55°

‡Radiant Intensity is measured by Tektronix J6512

‡Total Radiated Power is measured by Photodyne #500.

◆ Outer dimension (Unit: mm)

