

L735-40 _ _ _ High Power Metal Stem LED Lamp

The series of L735-40 _ _ _ 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 735nm.

◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	PD	200	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		1.85	2.00	V
Reverse Current	IR	VR=5V			10	μA
Peak Wavelength	λ_P	IF=50mA	715	735	755	nm
Half Width	$\Delta\lambda$	IF=50mA		30		nm
Rise Time	tr	IF=50mA		80		ns
Fall Time	tf	IF=50mA		80		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	
L735-40K00	9	15			6		±40°
L735-40K42	6	10			60		±6°
L735-40M00	10	16			6		±40°
L735-40M32	7	12			50		±10°
L735-40T52	3.5	6			3		±55°

‡Radiant Intensity is measured by Tektronix J6512

‡Total Radiated Power is measured by Photodyne #500.

◆ Outer dimension (Unit: mm)

