

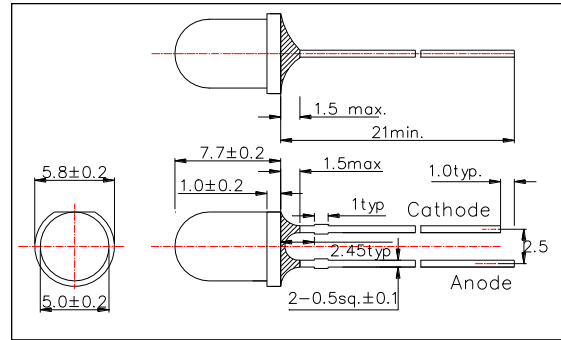
L645-04 Super Bright Red LED Lamp

L645-04 is an AlInGaP LED mounted on a lead frame with a clear epoxy lens. On forward bias, it emits a band of visible light that peaks 645nm.

<Specifications>

1. Product Name: Super Bright Red LED
2. Type Number: L645-04
3. Chip:
 - Chip material: AlInGaP
 - Peak Wavelength: 645nm typ.
4. Package
 - Type: Φ5mm Clear Molding
 - Resin Material: Epoxy Resin
 - Lead Frame: Soldered(Lead Free)

Outer Dimension (Unit:mm)



Absolute Maximum Ratings				
Item	Symbol	Maximum Rated Value	Unit	Ambient Temp.
Power Dissipation	PD	175	mW	Ta=25°C
Forward Current	IF	75	mA	Ta=25°C
Reverse Voltage	VR	5	V	Ta=25°C
Junction Temperature	Tj	100	°C	
Thermal Resistance*	Rthjp	320	K/W	
Operating Temperature	TOPR	-40 ~ +80	°C	
Storage Temperature	TSTG	-40 ~ +100	°C	
Soldering Temperature**	TSOL	265	°C	

* Junction - ambient, leads 7mm, soldered on PCB.

** Soldering condition must be completed within 5 second at 265°C.

Electro-Optical Characteristics [Ta=25°C]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		2.2	2.4	V
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power*	PO	IF=20mA	6	12		mW
Brightness**	IV	IF=20mA		3000		mcd
Peak Wavelength	λP	IF=20mA	635	645	655	nm
Half Width	Δλ	IF=20mA		20		nm
Viewing Half Angle	θ1/2	IF=20mA		±19		deg

* Measured by S3584-08

** Measured by Tektronix J-16

