
LED BACK LIGHT (4 Inch)

L-00501DBK-S

DATA SHEET

DOC. NO : QW0905-L-00501DBK-S

REV. : C

DATE : 08 - Aug- 2006



LIGITEK

LIGITEK ELECTRONICS CO.,LTD.

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PART NO. L-00501DBK-S

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Features

Dimensions:97.44x60x3.6(mm)

View Area:97.44x40(mm)

Edge Backlight

Chip Emitting Color

Blue

Applications

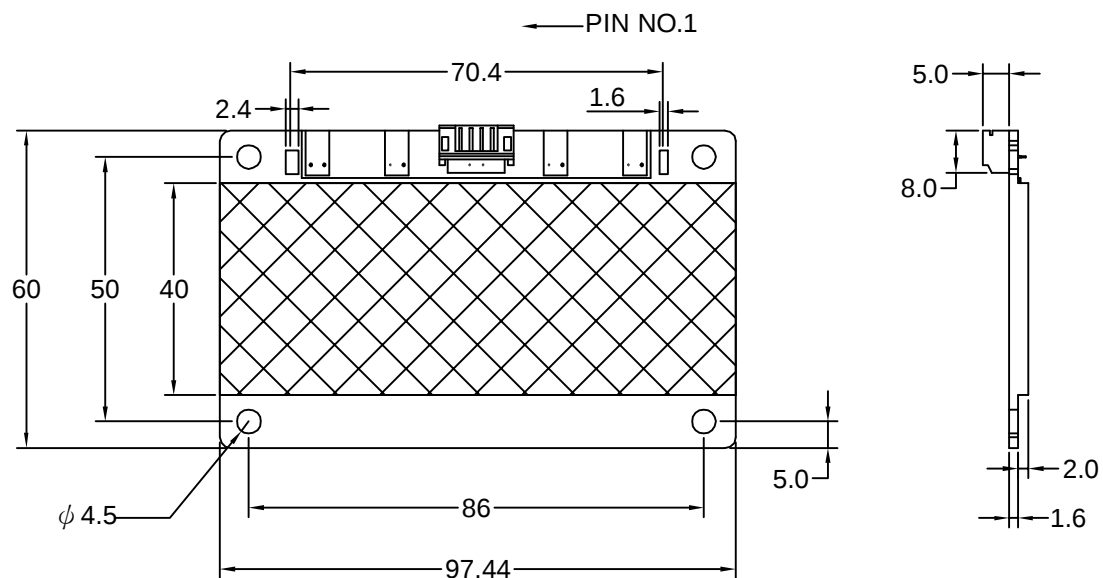
Mobile Phone

PDA

LCD Backlight

Instrumental Panel

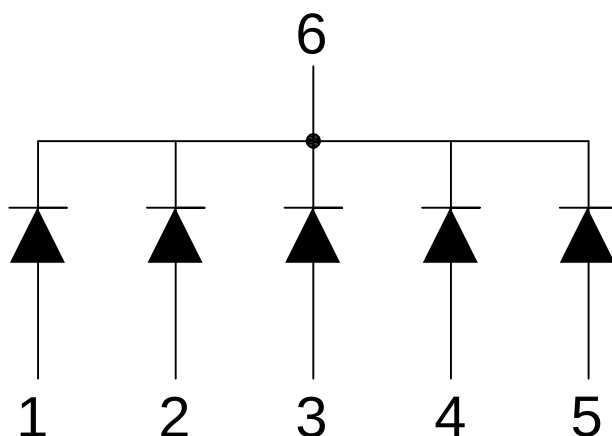
Package Dimensions



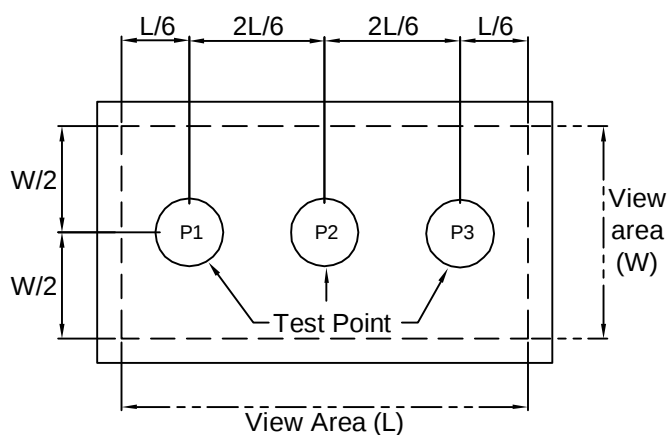
Note : 1.All dimension are in millimeters and (Inch) tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
2.Specifications are subject to change without notice.



Internal Circuit Diagram



Measurement Method



1.Measurement Equipment : " Topcon"BM-7

2.The distance of measurement between test equipment and the objection : 50cm

$$3. \Delta EH\% = \left[1 - \frac{P(\text{MAX}) - P(\text{MIN})}{P(\text{MAX})} \right] \times 100\%$$



Absolute Maximum Ratings at Ta=25 °C

Parameter	Symbol	Ratings	UNIT
Forward Current	I _F	100	mA
Power Dissipation	P _D	0.4	W
Reverse Voltage	V _R	5	V
Operating Temperature	T _{opr}	-20 ~ +70	°C
Storage Temperature	T _{stg}	-30 ~ +80	°C

Electrical/Optical Characteristics(Ta=25°C)

Emitting Color : Blue

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditon
Luminance (Brightness)	IV	7.0	12	-	cd/m ²	IF=50mA
Forward Voltage	VF	-	3.5	4.0	v	IF=50mA
Dominant Wavelength	λ D	-	470	-	nm	IF=50mA
Spectral Line Half Width	△ λ	-	30	-	nm	IF=50mA
Reverse current	IR	-	-	10	μ A	VR=5V
Luminous Uniformity	△ EH	70	-	-	%	IF=50mA

Note : 1.The forward voltage data did not including ±0.1V testing tolerance.

2. The luminance (brightness) data did not including ±15% testing tolerance.



Typical Electro-Optical Characteristics Curve

DBK CHIP

Fig.1 Forward current vs. Forward Voltage
for each chip

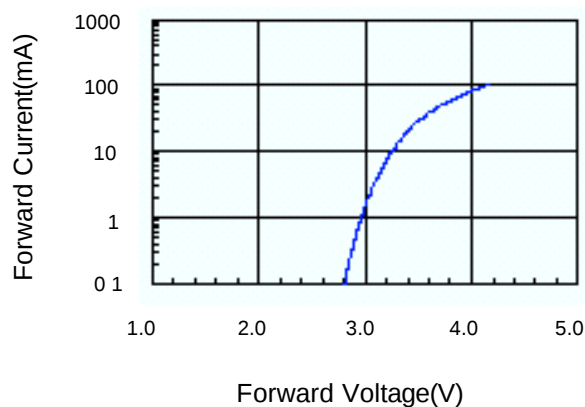


Fig.2 Relative Intensity vs. Forward Current
for each chip

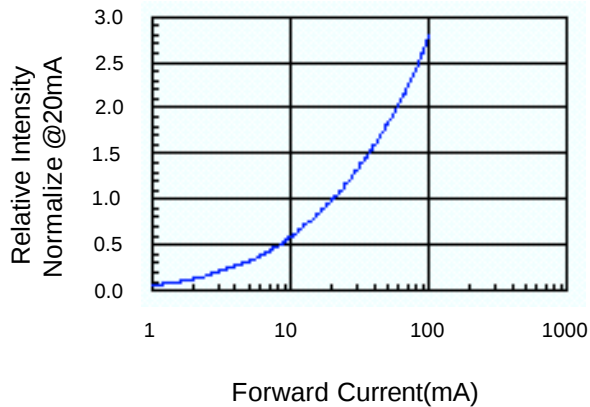


Fig.3 Relative Intensity vs. Wavelength
for each chip

