



JAN 03 2000 160P

工程文件 ☐ 制訂 / ☐ 變更 通知單

文件編號	DSE-942-038
ECN# :	
頁數	共 4 頁

文件名稱: 94-22 UBG0/S2	版次	原 0 版變更爲 X 版	日期	99 年 12 月 29 日
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文件制訂/變更內容描敘: (篇幅不足, 請以另紙附上。)

新規格

文件制訂/變更理由: (請詳細說明。)

*ECN 編號由文件中心提供。

JAN 31 2000

制訂人	制訂部門主管	品保審核	生技審核	OEM 審核	工程審核	生產	生技	生管	品保	OEM	海外	採購
						RD	恆光	外包	業務	苑裡	總辦室	

億光電子工業股份有限公司



EVERLIGHT ELECTRONICS CO, LTD.

MODEL NO: 94-22UBGC/S2

Device Number : DSE-942-038 REV. 1.0

High Performance with Reflector LEDs

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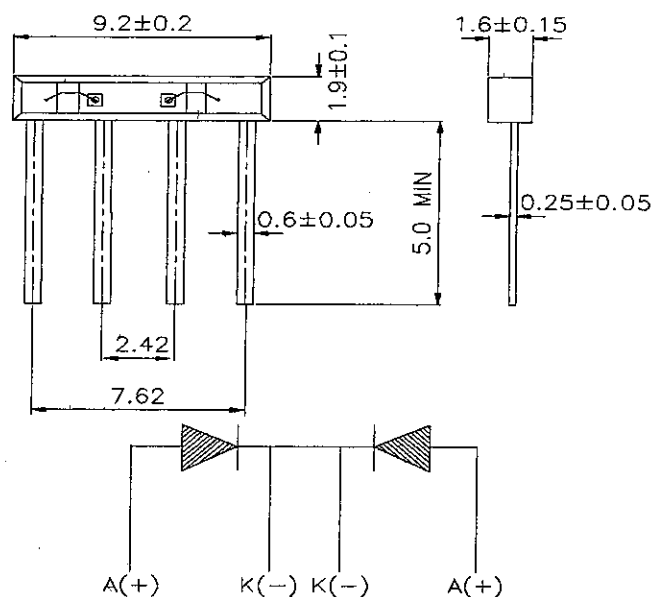
Features :

- Compatible with automatic placement equipment.
- Compatible with infrared and vapor phase reflow solder process.
- Eia std package.
- IC compatible.

Applications :

- Automotive: backlighting in dashboard and switch,
- Telecommunication: indicator and backlighting in telephone and fax.
- Indicator and backlight for audio and video equipment.
- Indicator and backlight for battery driven equipment.
- Small indicator for outdoor applications.
- Indicator and backlight in office equipment.
- Flat backlight for LED, switches and symbol.
- General use.

Package Dimension :



Notes :

Tolerances Unless Dimension $\pm 0.1\text{mm}$

Angle $\pm 0.5^\circ$

Unit = mm

PART NO	CHIP		Lens Color
	Material	Emitted Color	
94-22UBGC/S2	InGa _N /SiC substrate	Super Blue Green	Water Clear

DESIGNER	CHECKER	APPROVER

Office: NO 25, Lane. 76, Chung Yang Rd., Sec. 3,

Tucheng, Taipei 236, Taiwan, R.O.C.

TEL: 886-2-2267-2000, 2266-9936 (22 Lines)

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■ Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Reverse Voltage	Vr	5	V
Forward Current	If	30	mA
Operating Temperature	Topr	-40~+85	°C
Storage Temperature	Tstg	-40~+90	°C
Soldering Temperature	Tsol	260(for 5second)	°C
Electrostatic Discharge	ESD	1000	V
Power Dissipation	Pd	240	MW
Peak Forward Current(Duty 1/10 @ 1KHZ)	If(Peak)	100	MA

■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous intensity	Iv	-----	5	-----	mcd	If=2mA
		46	79	-----	mcd	If=20mA
Viewing Angle	2 θ 1/2	-----	130	-----	deg	If=20mA
Peak Wavelength	λ p	-----	502	-----	nm	If=20mA
Dominant Wavelength	λ d	-----	505	-----	nm	If=20mA
Spectrum Radiation Bandwidth	△ λ	-----	30	-----	nm	If=20mA
Forward Voltage	Vf	-----	3.5	4.0	V	If=20mA
Reverse Current	Ir	-----	-----	10	μ A	Vr=5V



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■ Reliability test item and condition

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP : 260°C ± 5 °C	5 SEC	76 Pcs	0/1
2	Temperature Cycle	H : +85°C 30min ∫ 5 min L : -55°C 30min	50 CYCLE	76 Pcs	0/1
3	Thermal Shock	H : +100°C 5min ∫ 10 sec L : -10°C 5min	50 CYCLE	76 Pcs	0/1
4	High Temperature Storage	TEMP : 100°C	1000 HRS	76 Pcs	0/1
5	Low Temperature Storage	TEMP : -55°C	1000 HRS	76 Pcs	0/1
6	DC Operating Life	If = 20 mA	1000 HRS	76 Pcs	0/1
7	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 Pcs	0/1



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Typical Electro-Optical Characteristic Curves

