LEDTRONICS, INC.®

23105 Kashiwa Court, Torrance, CA 90505
Phone: (800) 579-4875 or (310) 534-1505 Fax: (310) 534-1424
E-mail: webmaster@ledtronics.com
Website: http://www.ledtronics.com

DIS-1148-0UB

Super Blue
5mm, Cylindrical, 5.3mm Height
140° viewing angle

DWG BY: BL / GP 03-16-09
CHK BY: PL 03-16-09
REVISION LTR: - 03-16-09

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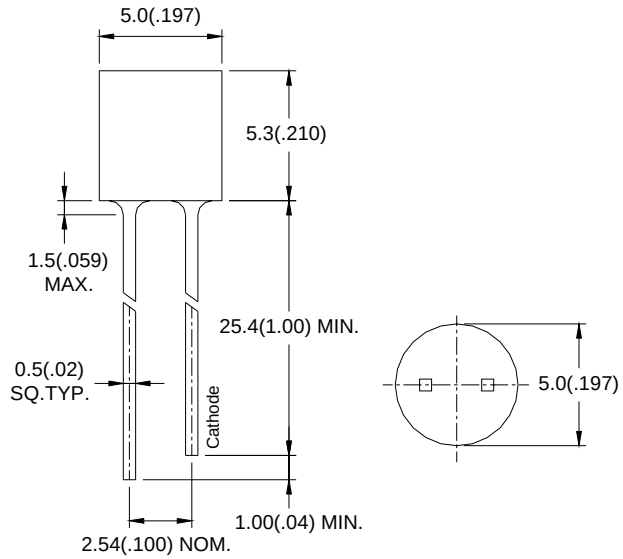
● Features:

1. Chip material: GaN/SiC
2. Emitted color : Super Blue
3. Lens Appearance : Water Clear
4. Cylindrical shape.
5. Low power consumption.
6. Compatible
7. Long life solid state reliability.
8. This product is RoHS compliant.

● Applications:

1. TV set
2. Monitor
3. Telephone
4. Computer
5. Circuit board

● Package dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25mm (0.01”) unless otherwise specified.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

● Absolute Maximum Ratings(Ta=25℃)

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	150	mW
Forward Current	I_F	30	mA
Peak Forward Current*[1]	I_{FP}	150	mA
Reverse Voltage	V_R	5	V
Operating Temperature	Topr	-40℃~80℃	
Storage Temperature	Tstg	-40℃~85℃	
Soldering Temperature	Tsol	260℃(for 5 seconds)	

*[1]Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width.

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● Electrical and optical characteristics(Ta=25℃)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	I_F=20mA	-	3.8	4.5	V
Luminous Intensity	Iv	I_F=20mA	-	9.5	-	mcd
Reverse Current	I_R	V_R=5V	-	-	100	μA
Peak Wave Length	λp	I_F=20mA	-	426	-	nm
Dominant Wave Length	λd	I_F=20mA	-	464	-	nm
Spectral Line Half-width	Δλ	I_F=20mA	-	64	-	nm
Viewing Angle	$2\theta_{1/2}$	I_F=20mA	-	140	-	deg
Radiant Intensity		I_F=20mA	-	-	-	mW/sr
Chromaticity Coordinates	X	I_F=20mA	-	0.15	-	
	Y		-	0.06	-	

● Typical Electro-Optical Characteristics Curves

Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

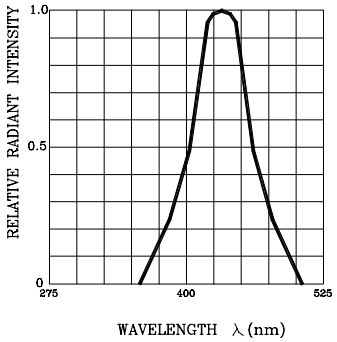


Fig.2 FORWARD CURRENT DERATING CURVE

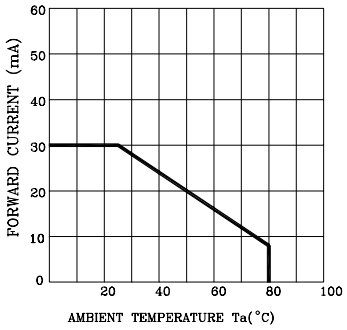


Fig.3 FORWARD CURRENT VS. FORWARD VOLTAGE

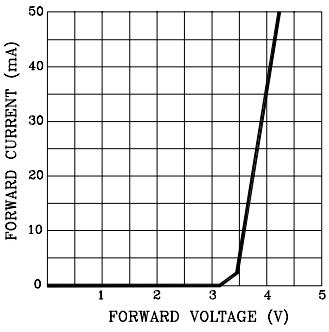


Fig.4 RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

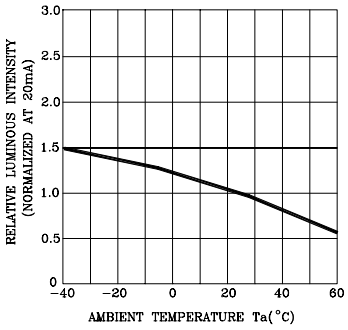
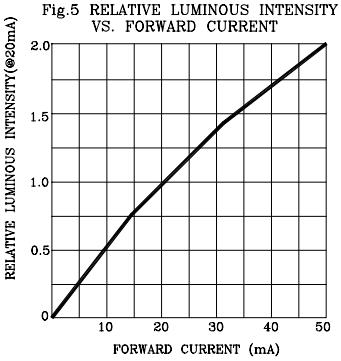
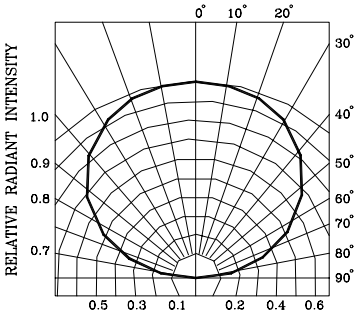


Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



RADIATION DIAGRAM



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● Intensity Bin Limits (At 20mA)

BIN CODE	Min. (mcd)	Max. (mcd)
H	5.5	8.2
J	8.2	12.3
K	12.3	18.5
L	18.5	28.0
M	28.0	42.0

Tolerance for each Bin limit is ± 15 %

● Color Bin Limits (At 20mA)

BIN CODE	Min. (nm)	Max. (nm)
1	460	465
2	465	470
3	470	475

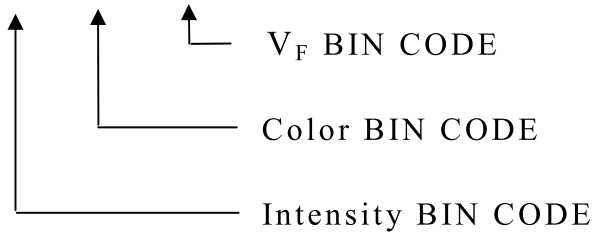
Tolerance for each Bin limit is ± 15 %

● V_F Bin Limits (At 20mA)

BIN CODE	Min. (mcd)	Max. (mcd)
1	3.0	3.2
2	3.2	3.4
3	3.4	3.6
4	3.6	3.8
5	3.8	4.0
6	4.0	4.2
7	4.2	4.4

Tolerance for each Bin limit is ± 15 %

● BIN : x x x



Notes:

1. Bin categories are established for classification of products. Products may not be available in all bin categories .