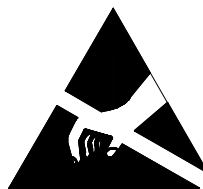
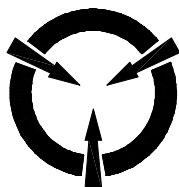


LD1-BW56CB-A11R

DATA SHEET

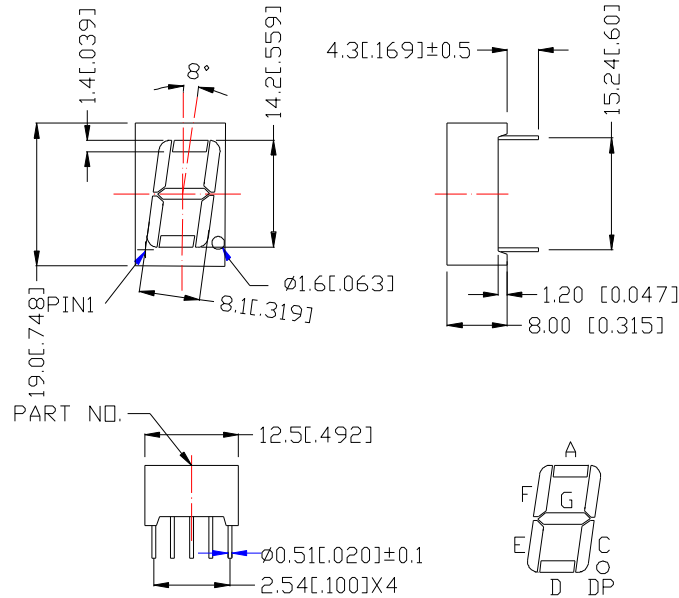


Light Engine			Customer
<i>Prepared by</i>	<i>Checked by</i>	<i>Approved by</i>	
YaoQin	Chenfok	YueWei	
NOTES: Conformity With RoHS Directive 2002/95/EC			

■ Modification Record

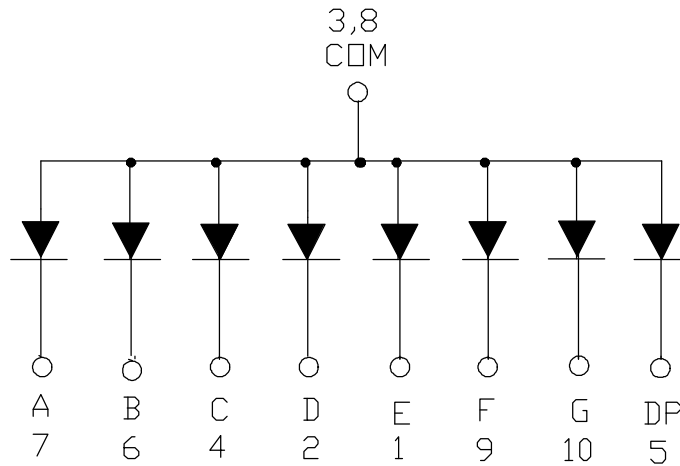
Rev.	Description Of Change	Requested	Date
01	1 st preliminary specification	Light Engine	2007/06/18

■ **Outer Dimension:**



Notes: Unless otherwise stated, The tolerance is $\pm 0.25\text{mm}$.

■ **Circuit Diagram:**



■ **Pin Connection:**

PIN NO.	CONNECTION	PIN NO.	CONNECTION
1	Cathode E	6	Cathode B
2	Cathode D	7	Cathode A
3	Common Anode	8	Common Anode
4	Cathode C	9	Cathode F
5	Cathode DP	10	Cathode G



LIGHT ENGINE LIMITED

Light Engine

■ Features:

- High Reliability
- Color: Blue Digit
- Low Power Requirement

■ Description:

- Single Digit Display
- Digit Height: 14.20mm(0.56²)
- Black Face Encapsulation with White Segment

■ Absolute Maximum Rating (Ta=25°C):

Parameter	Symbol	Condition	Color	Rating	Unit
Power Dissipation Per Segment	P _d	—	Blue	90	mW
Forward Current Per Segment	I _F	—	Blue	20	mA
Derating Of If Per Segment	△I _F	Ta ≥ 25°C	Blue	0.25	mA/°C
Peak Forward Current Per Segment	I _{FP}	1/10 Duty 1KHz	Blue	70	mA
Reverse Voltage Per Segment	V _R	—	Blue	5	V
Operating Temperature Range	Topr	—	—	-35~+85	°C
Storage Temperature Range	Tstg	—	—	-35~+85	°C

■ Electrical/Optical Characteristics Rating(Ta=25°C)

Item	Symbol	Test condition	Location	Color	Rating			Unit
					Min.	Typ.	Max.	
Forward Voltage	V _F	I _F =20mA	Per Segment	Blue	—	3.8	4.5	V
Reverse Current	I _R	V _R =5V	Per Segment	Blue	—	—	100	μA
Luminous Intensity	I _V	I _F =10mA	Per Segment	Blue	1251	3000	—	μcd
Wavelength	λ _P	I _F =20mA	Per Segment	Blue	—	428	—	nm
	λ _D					466		
Spectral Line Half Width	△λ	I _F =20mA	Per Segment	Blue	—	65	—	nm
Electrostatic Discharge Threshold (HBM)	ESD	—	—	—	—	—	1000	V
Luminous Intensity Matching Ratio (s/Segment To Segment)	I _{v-m}	I _F =10mA	—	—	—	—	2:1	—

■ Luminous Intensity Sorting: (Luminous intensity tolerance :+/-10%)

Rank	Symbol	Condition	Min	Max	Unit
H	H	I _F =10mA	1251	2000	μcd
I	I	I _F =10mA	2001	3200	μcd
J	J	I _F =10mA	3201	5050	μcd

■ Pb, Cd, Hg, Cr+6, PBBs, PBDEs 6 Substances Complies To RoHS Standard.

■ Soldering Conditions: Soldering Temp. ≤+260°C, Soldering Time. ≤3sec.

(At 2mm distance from the case of reflector edge)