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BNS-OD-FC001/A4

LITE-ON Technology Corp. / Optoelectronics No.90,Chien 1 Road, Chung Ho, New Taipei City 23585, Taiwan, R.O.C. Tel: 886-2-2222-6181 Fax: 886-2-2221-1948 / 886-2-2221-0660 http://www.liteon.com/opto

### **FEATURES**

\* 0.56 inch (14.22 mm) DIGIT HEIGHT.
\* CONTINUOUS UNIFORM SEGMENTS
\* LOW POWER REQUIREMENT.
\* EXCELLENT CHARACTERS APPEARANCE.
\* HIGH BRIGHTNESS & HIGH CONTRAST.
\* WIDE VIEWING ANGLE.
\* SOLID STATE RELIABILITY.
\* CATEGORIZED FOR LUMINOUS INTENSITY.
\* LEAD-FREE PACKAGE (ACCORDING TO ROHS).

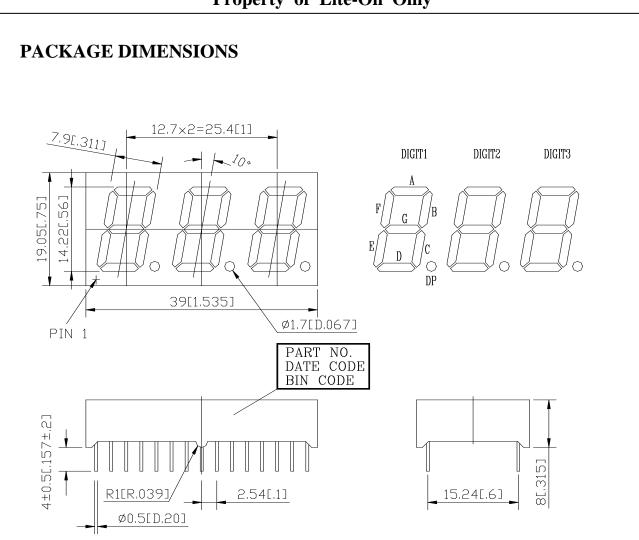
### DESCRIPTION

The LTC-5817CB is a 0.56 inch (14.22 mm) digit height triple digit seven-segment display. This device uses InGaN blue LED chips (GaN epi on SiC substrate). The display has a gray face and white segments.

### DEVICE

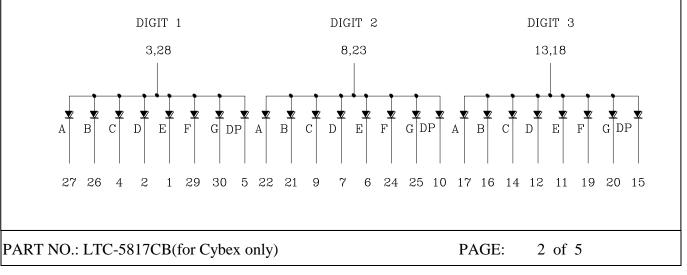
PART NO.	DESCRIPTION		
InGaN Blue	Common Anode		
LTC-5817CB	Right Hand Decimal		

PART NO.: LTC-5817CB(for Cybex only)



NOTES: 1.All dimensions are in millimeters. Tolerances are  $\pm 0.25$  mm (0.01") unless otherwise noted. 2. Pin tip's shift tolerance is  $\pm 0.4$  mm.

#### INTERNAL CIRCUIT DIAGRAM



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#### **PIN CONNECTION**

No.	CONNECTION	No.	CONNECTION
1	CATHODE E (DIGIT 1)	16	CATHODE B (DIGIT 3)
2	CATHODE D (DIGIT 1)	17	CATHODE A (DIGIT 3)
3	COMMON ANODE (DIGIT 1)	18	COMMON ANODE (DIGIT 3)
4	CATHODE C (DIGIT 1)	19	CATHODE F (DIGIT 3)
5	CATHODE DP (DIGIT 1)	20	CATHODE G (DIGIT 3)
6	CATHODE E (DIGIT 2)	21	CATHODE B (DIGIT 2)
7	CATHODE D (DIGIT 1)	22	CATHODE A (DIGIT 2)
8	COMMON ANODE (DIGIT 2)	23	COMMON ANODE (DIGIT 2)
9	CATHODE C (DIGIT 2)	24	CATHODE F (DIGIT 2)
10	CATHODE DP (DIGIT 2)	25	CATHODE G (DIGIT 2)
11	CATHODE E (DIGIT 3)	26	CATHODE B (DIGIT 1)
12	CATHODE D (DIGIT 3)	27	CATHODE A (DIGIT 1)
13	COMMON ANODE (DIGIT 3)	28	COMMON ANODE (DIGIT 1)
14	CATHODE C (DIGIT 3)	29	CATHODE F (DIGIT 1)
15	CATHODE DP (DIGIT 3)	30	CATHODE G (DIGIT 1)

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### ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	115	mW			
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	60	mA			
Continuous Forward Current Per Segment	30	mA			
Derating Linear From 25°C Per Segment	0.33	mA/°C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	$-35^{\circ}$ C to $+105^{\circ}$ C				
Storage Temperature Range $-35^{\circ}$ C to $+105^{\circ}$ C					
Solder Conditions: $1/16$ inch below seating plane for 3 seconds at $260^{\circ}$ C.,					

or temperature of unit (during assembly) not over max. temperature rating above.

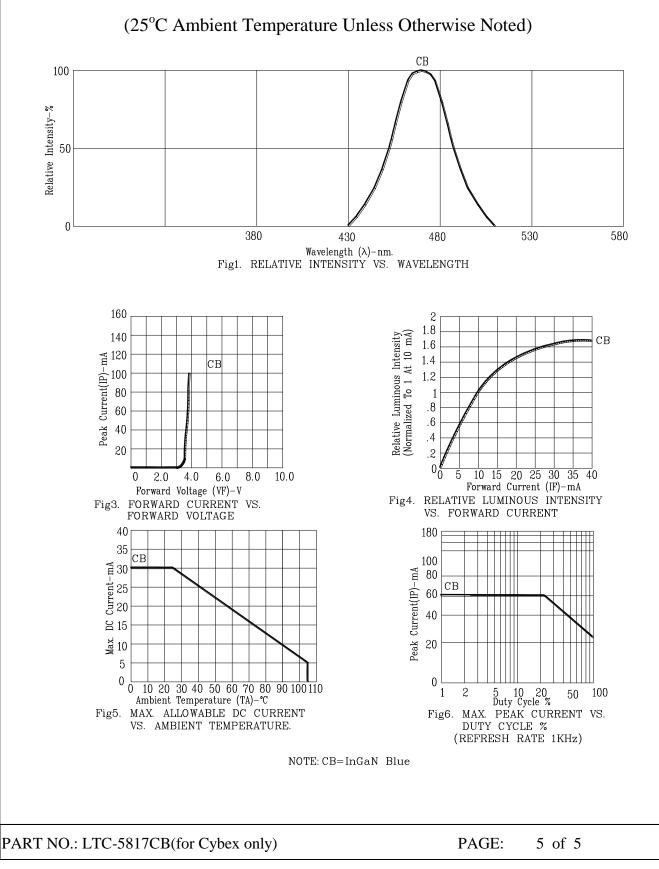
## ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	5400	9000		μcd	IF=10mA
Peak Emission Wavelength	λp		468		nm	IF=20mA
Spectral Line Half-Width	Δλ		25		nm	IF=20mA
Dominant Wavelength	λd		470		nm	IF=20mA
Forward Voltage Per Segment	VF		3.3	3.7	V	IF=20mA
Reverse Current Per Segment	Ir			100	μΑ	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio (Similar Light Area)	Iv-m			2:1		IF=10mA

Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision International De L'Eclairage) eye-response curve.

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### **TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES**



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