



Spec No.: DS30-2008-0153 Effective Date: 08/23/2008 Revision: -



BNS-OD-FC001/A4

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LED DISPLAY

LTS-2801ACB DATASHEET

Rev	Description	By				
1	ORIGINAL	<u>KITTISAK</u>				
	(Refer to contour drawing Revision (-))	19 Nov .2007				
(Abo	(Above data for PD and Customer tracking only)					
-	NPPR Received and Upload on OPNC	KITTISAK B. Aug 11. 2008				

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PART NO.: LTS-2801ACB

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FEATURES

* 0.28-inch (7.0-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 LTS-2801ACB is a 0.28-inch (7.0-mm) digit height single digit seven-segment display. This device uses InGaN BLUE LED chips (InGaN epi on SiC substrate), and has a gray face and white segments.

DEVICE

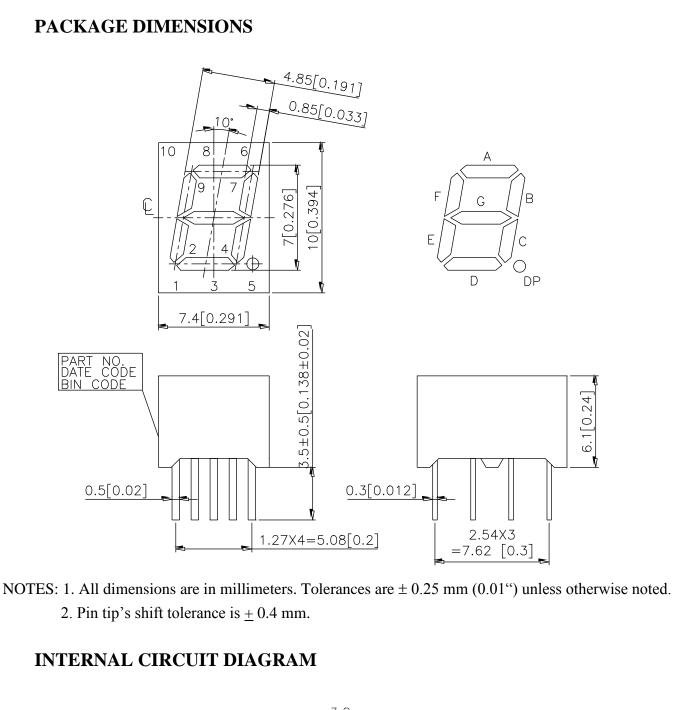
PART NO.	DESCRIPTION				
InGaN BLUE	Common Anode				
LTS-2801ACB	Rt. Hand Decimal				

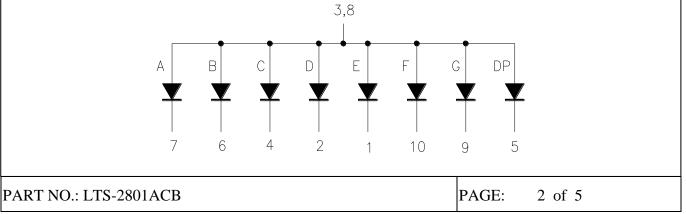
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PIN CONNECTION

No.	CONNECTION
1	CATHODE E
2	CATHODE D
3	COMMON ANODE
4	CATHODE C
5	CATHODE D.P.
6	CATHODE B
7	CATHODE A
8	COMMON ANODE
9	CATHODE G
10	CATHODE F

PART NO.: LTS-2801ACB

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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 (Frequency 1Khz, 10% duty cycle)	60	mA		
Continuous Forward Current Per Segment	30	mA		
Forward Current Derating from 25 ⁰ C	0.28	mA/ ⁰ C		
Reverse Voltage Per Segment	5	V		
Operating Temperature Range	-35° C to $+105^{\circ}$ C			
Storage Temperature Range $-35^{\circ}C$ to $+105^{\circ}C$				
Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260 ^o C.,				
or temperature of unit (during assembly) not over max. temperature rating above				

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN	ТҮР	MAX	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	Iv	5400	9000		μcd	$I_F = 10 mA$
Peak Emission Wavelength	λp		468		nm	$I_F = 5mA$
Spectral Line Half-Width	Δλ		25		nm	$I_F = 5mA$
Dominant Wavelength	λd	464	470	475	nm	$I_F = 5mA$
Forward Voltage Per Segment	VF	2.5	-	3.5	V	$I_F = 5mA$
Reverse Current Per Segment	Ir			100	μΑ	$V_R = 5V$
Luminous Intensity Matching Ratio (Similar Light Area)	Iv-m			2:1		$I_F = 10 mA$

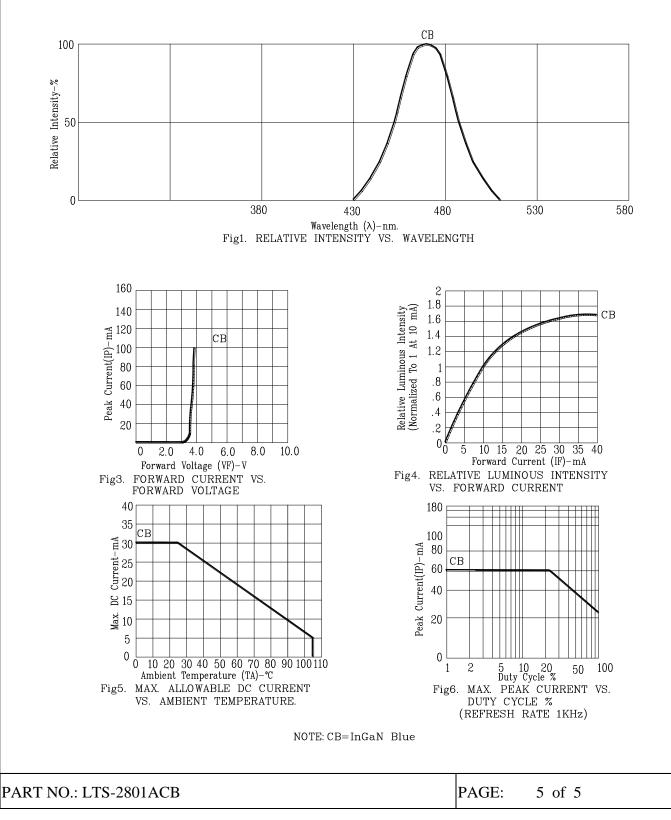
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



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