



**Spec No.: DS30-2007-0055** Effective Date: 04/10/2007 Revision: -



BNS-OD-FC001/A4

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## LED DISPLAY

## LTA-1000KR DATA SHEET

Rev	Description	By
-	Original Spec	Phanomkorn J.

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## LITEON LITE-ON TECHNOLOGY CORPORATION Property of Lite-On Only

### **FEATURES**

\* RECTANGULAR LIGHT BAR. \* LARGE, BRIGHT, UNIFORM LIGHT EMITTING AREAS. \* LOW POWER REQUIREMENT. \* HIGH BRIGHTNESS & HIGH CONTRAST. \* SOLID STATE RELIABILITY. \* CATEGORIZED FOR LUMINOUS INTENSITY. \* LEAD-FREE PACKAGE(ACCORDING TO ROHS)

### DESCRIPTION

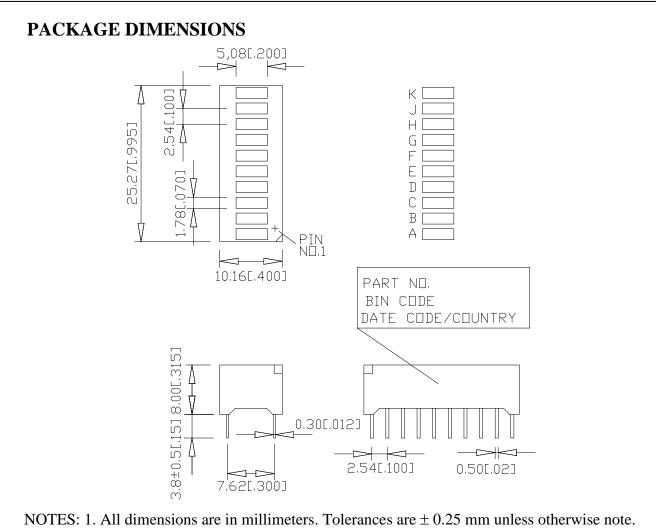
The LTA-1000KR is a ten rectangular light sources array display designed for a variety of applications where a continuously large, bright source of light is required. This device utilizes AlIGaP Super Red LED chips, which are made from AlInGaP on none-transparent GaAs substrate, and has a gray face and white segments.

### DEVICE

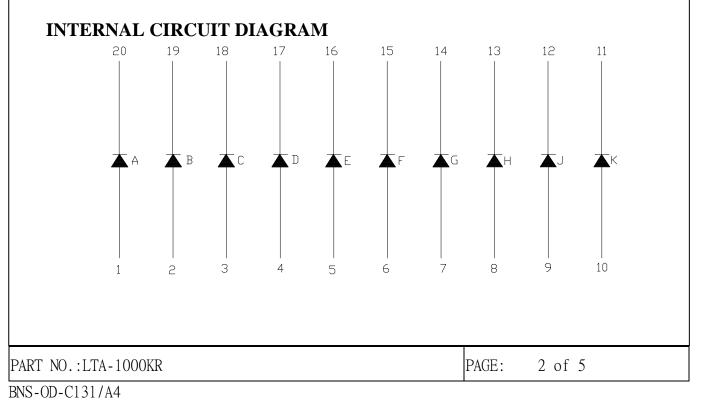
PART NO.	DESCRIPTION			
Red Orange	Universal			
LTA-1000KR	Ten Rectangular Bar			

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2. Pin tip's shift tolerance is  $\pm 0.4$  mm.



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### **PIN CONNECTION**

No.	CONNECTION
1	ANODE A
2	ANODE B
3	ANODE C
4	ANODE D
5	ANODE E
6	ANODE F
7	ANODE G
8	ANODE H
9	ANODE J
10	ANODE K
11	CATHODE K
12	CATHODE J
13	CATHODE H
14	CATHODE G
15	CATHODE F
16	CATHODE E
17	CATHODE D
18	CATHODE C
19	CATHODE B
20	CATHODE A

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

PARAMETER	MAXIMUM RATING	UNIT		
Power Dissipation Per Segment	70	mW		
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	90	mA		
Continuous Forward Current Per Segment	25	mA		
Derating Linear From 25°C Per Segment	0.33	mA/°C		
Reverse Voltage Per Segment	5	V		
Operating Temperature Range	-35°℃ to +105°℃			
Storage Temperature Range $-35^{\circ}$ C to $+105^{\circ}$ C				
Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260 <sup>0</sup> C or				
of temperature unit (during assembly) not over max. temperature rating above.				

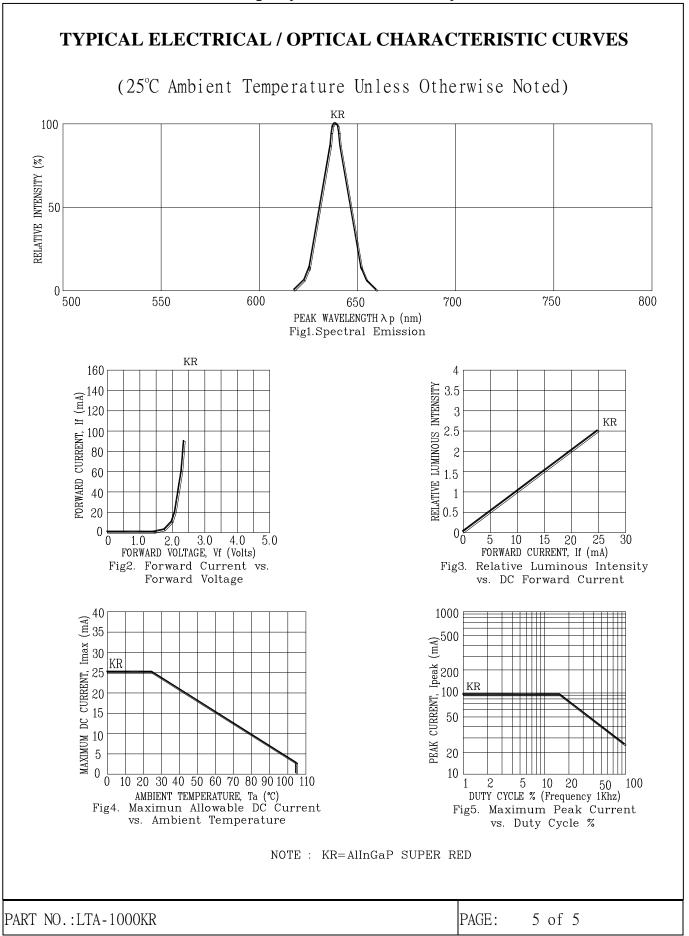
### ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	200	675		μcd	IF=1mA
Peak Emission Wavelength	λp		639		nm	IF=20mA
Spectral Line Half-Width	Δλ		20		nm	IF=20mA
Dominant Wavelength	λd		631		nm	IF=20mA
Forward Voltage Per Segment	VF		2	2.6	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=1mA

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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