LED DISPLAY

LTA-10102KR

DATA SHEET

Rev	Description	By
01	RDR Original Spec	Phanomkorn J. 24 January 2008
-	NPPR Original Spec	Phanomkorn J. 23 April 2008

SPEC. NO.:	DS30-2008-0086
DATE :	23 April 2008
REV. NO. :	-
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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

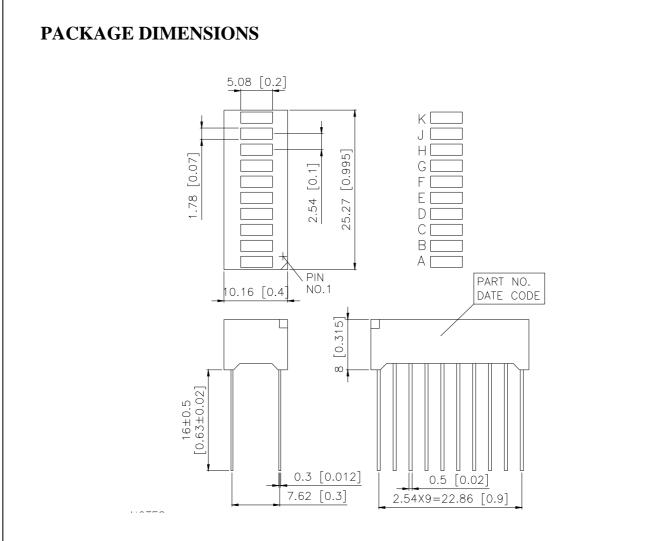
The LTA-10102KR is a ten rectangular light sources array display designed for a variety of applications where a continuously large, bright source of light is required. This device uses AlInGaP Super Red LED chips, which are made from AlInGaP on a non-transparent GaAs substrate. The display has a black face and white segments.

DEVICE

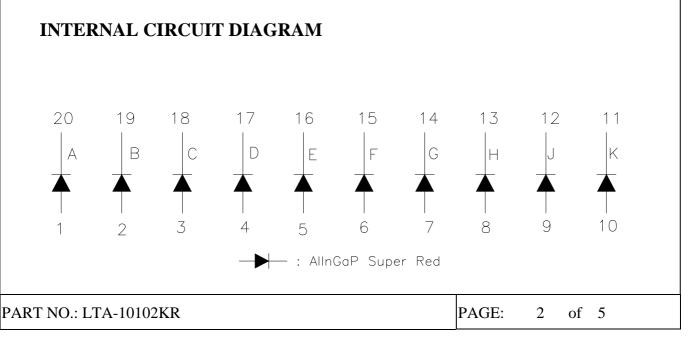
PART NO.	DESCRIPTION				
AlInGaP Super Red	Universal				
LTA-10102KR	Ten Rectangular Bar				

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NOTES: 1. All dimensions are in millimeters. Tolerances are \pm 0.25 mm unless otherwise note. 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

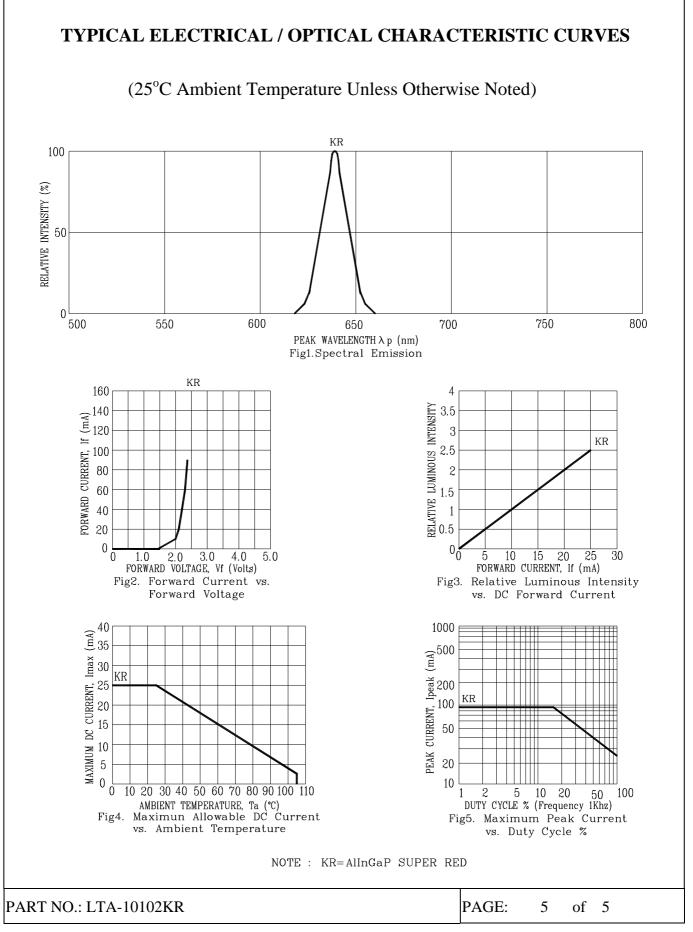
PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	70	mW			
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	90	mA			
Continuous Forward Current Per Segment	25	mA			
Derating Linear From 25°C Per Segment	0.33	mA/°C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	Tating Temperature Range -35° C to $+105^{\circ}$ C				
Storage Temperature Range -35° C to $+105^{\circ}$ C					
Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260 ⁰ C or					
of temperature 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	200	675		μcd	$I_F = 1mA$
Peak Emission Wavelength	λp		639		nm	$I_F = 20 m A$
Spectral Line Half-Width	Δλ		20		nm	$I_F = 20 m A$
Dominant Wavelength	λd		631		nm	$I_F = 20 m A$
Forward Voltage Per Segment	VF		2.0	2.6	V	$I_F = 20 m A$
Reverse Current Per Segment	Ir			100	μΑ	$V_R = 5V$
Luminous Intensity Matching Ratio (Similar Light Area)	Iv-m			2:1		$I_F = 1 m A$

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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