

**Harvatek Light Bar Display
HCD89429**

Official Product	HCD89429	Customer Part No.	Data Sheet No.
	*****	*****	HCD89429
Specifications are subject to change without notice. Data and drawings herein are copyrighted.	OCT.18,2017	Version of 1.0	Page 1/7

Revision History

Revision	Page	Version No.	Revision Date
DS original		1.0	2017-10-18

Official Product	HCD89429	Customer Part No.	Data Sheet No.
	*****	*****	HCD89429
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		OCT.18,2017	Version of 1.0
			Page 2/7

DESCRIPTION

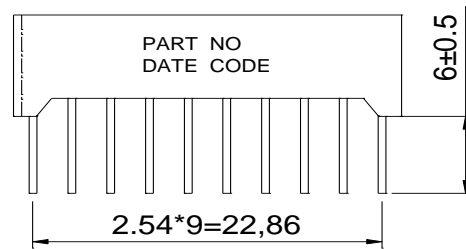
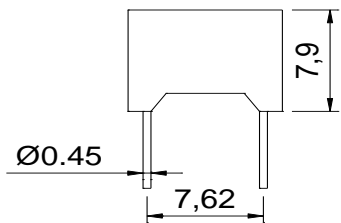
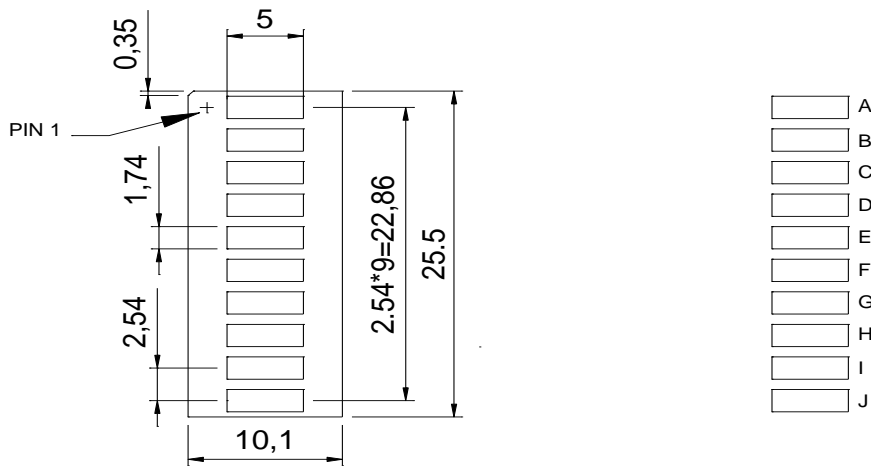
The HCD89429 is a ten rectangular light sources array display designed for a variety of applications where a continuously large, bright source of light is required. This device uses blue LED chips (InGaN epi on a Sapphire substrate), and has a black face and white segments.

FEATURES

- * 1x10 LIGHT BAR
- * 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

Official Product	HCD89429	Customer Part No.	Data Sheet No.
	*****	*****	HCD89429
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		OCT.18,2017	Version of 1.0
			Page 3/7

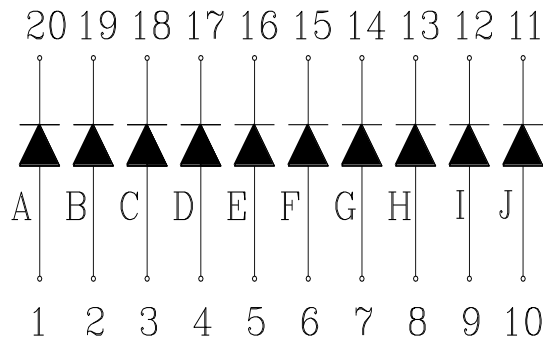
PACKAGE DIMENSIONS



NOTES:

1.All dimensions are in millimeters. Tolerances are $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



Official Product	HCD89429	Customer Part No.	Data Sheet No.
	*****	*****	HCD89429
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		OCT.18,2017	Version of 1.0
			Page 4/7

ABSOLUTE MAXIMUM RATING AT Ta = 25°C

PARAMETER	MAX.	UNIT
Power Dissipation Per Segment	70	mW
Peak Forward Current Per Segment (Frequency 1Khz,15% duty cycle)	100	mA
Continuous Forward Current Per Segment	20	mA
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35°C to +80°C	
Storage Temperature Range	-35°C to +85°C	
Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260°C		

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = 25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	13.7	21.7		mcd	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	V _F		3.3	3.8	V	IF=20mA
Reverse Current Per Segment	I _R			10	μA	VR=5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=10mA

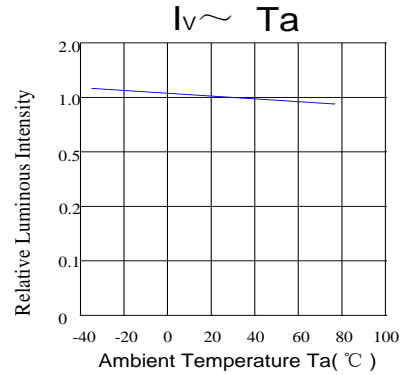
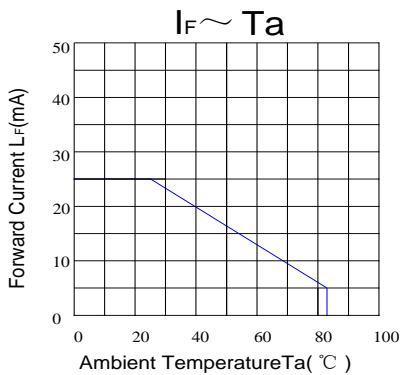
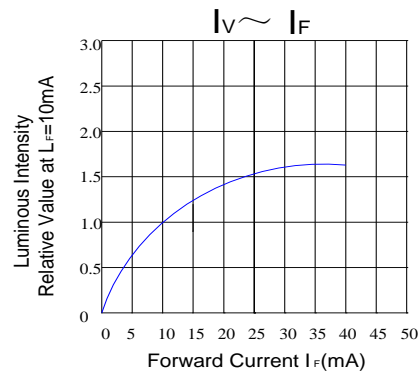
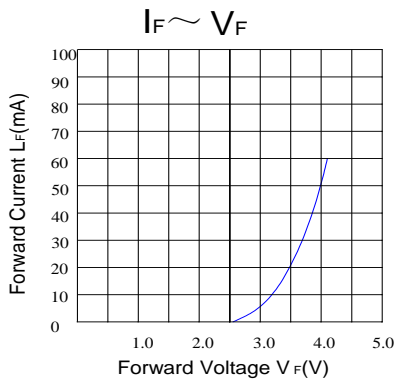
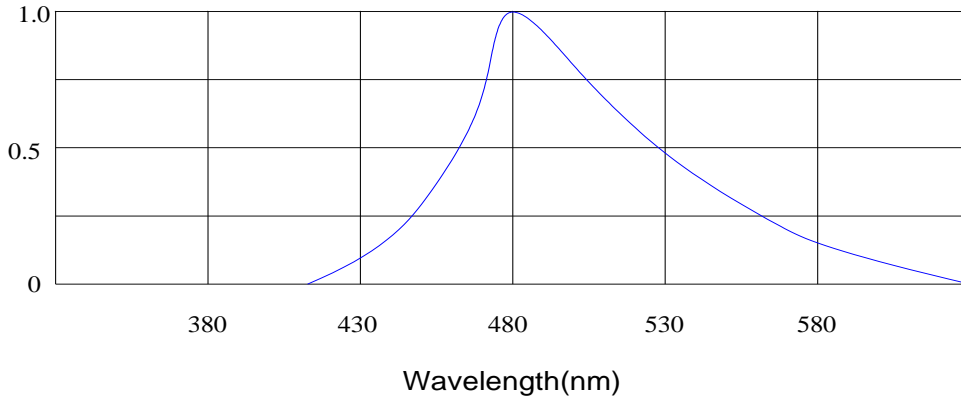
Note:

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

Official Product	HCD89429	Customer Part No.	Data Sheet No.
	*****	*****	HCD89429
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		OCT.18,2017	Version of 1.0
			Page 5/7

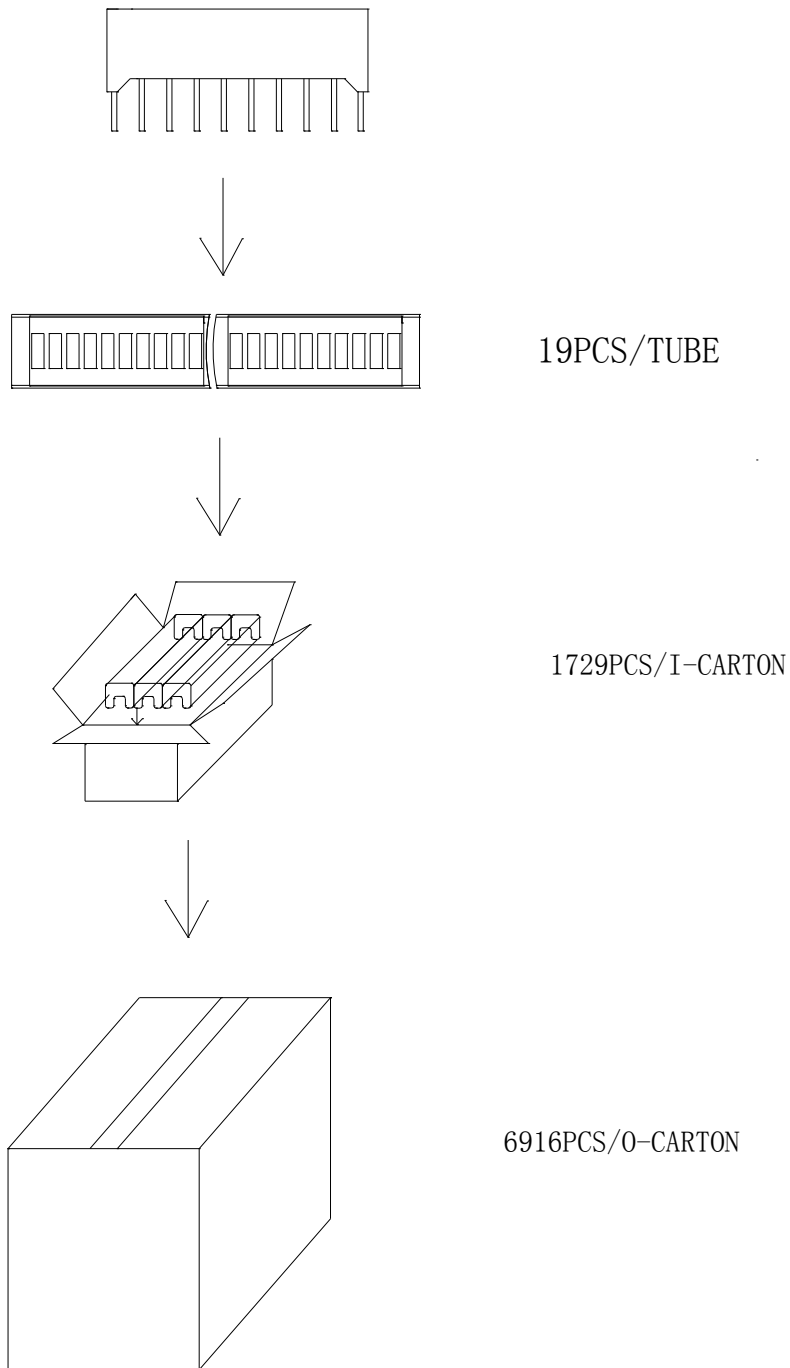
**TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES
(25°C Ambient Temperature Unless Otherwise Noted)**

RELATIVE INTENSITY vs WAVELENGTH



Official Product	HCD89429	Customer Part No.	Data Sheet No.
	*****	*****	HCD89429
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		OCT.18,2017	Version of 1.0
			Page 6/7

Pack process



Official Product	HCD89429	Customer Part No.	Data Sheet No.
	*****	*****	HCD89429
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		OCT.18,2017	Version of 1.0
			Page 7/7