

**Harvatek International 0.3" dual Digit Display
HCD89075**

Official Product	HCD89075	Customer Part No.	Data Sheet No.
	*****	*****	HCD89075
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Revision History

Revision	Page	Version No.	Revision Date
DS original HCD89075		1.0	08-21-2012

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DISCLAIMER

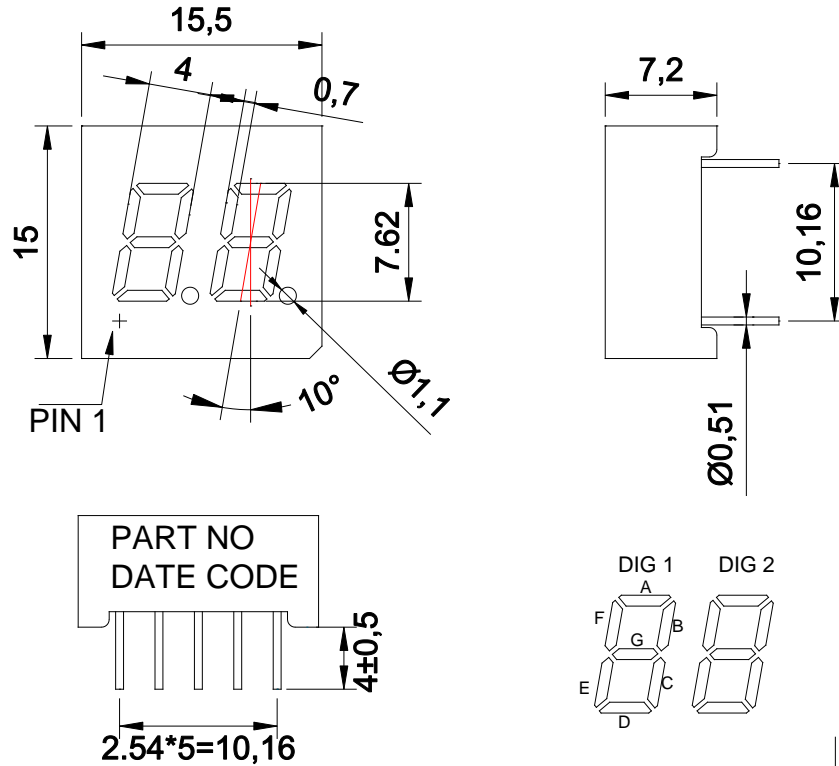
This HCD89075 is a 0.3 inch (7.62mm) digit height dual digit height seven-segment display. This device uses GaP Green LED chips (GaP epi on GaP substrate). The display has a gray face and white segments.

FEATURES

- *0.3-inch (7.62mm) 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

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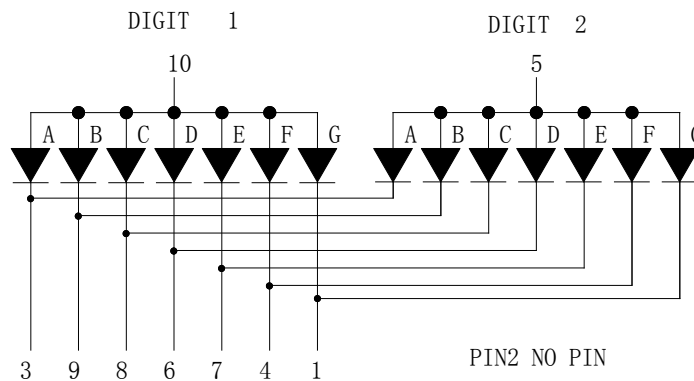
PACKAGE DIMENSIONS



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

2.Pin tip's shift tolerances is $\pm 0.4\text{mm}$.

INTERNAL CIRCUIT DIAGRAM (COMMON ANODE)



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ABSOLUTE MAXIMUM RATING AT Ta = 25°C

PARAMETER	G(Yellow green)	UNIT
Power Dissipation Per Segment	75	mW
Continuous Forward Current Per Segment	25	mA
Peak Forward Current	100	mA
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35°C to +85°C	
Storage Temperature Range	-35°C to +85°C	

Remarks: This product should be operated in forward bias. If a reverse voltage is continuously applied to the product, such operation can cause migration resulting in LED damage.

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = 25°C

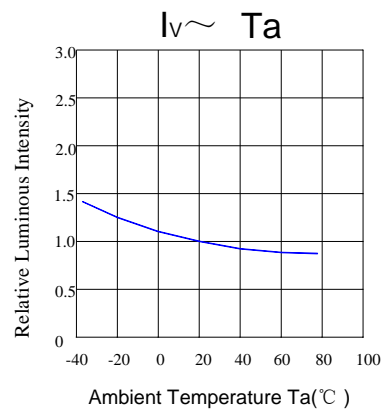
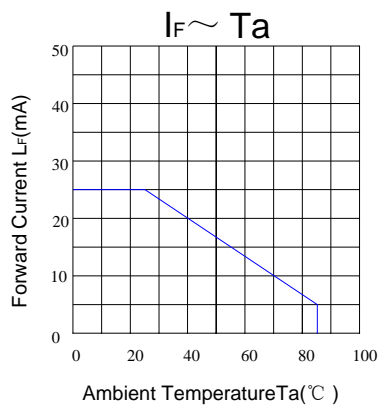
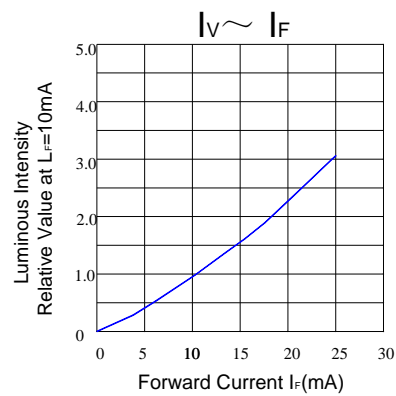
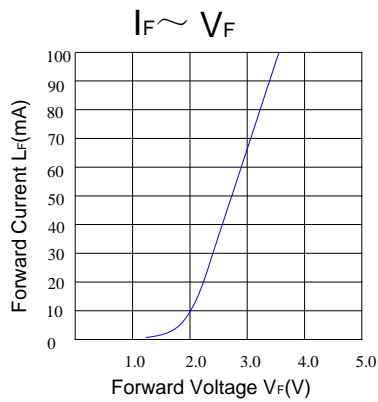
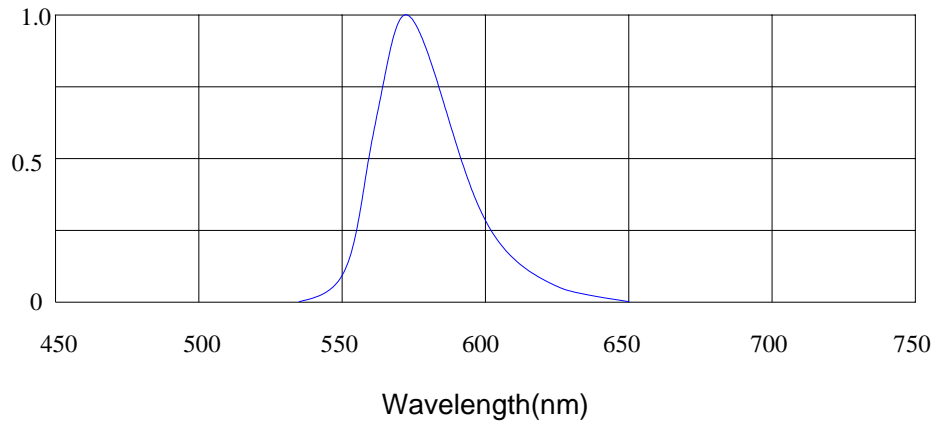
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	1300	2100		ucd	IF=10mA
Peak Emission Wavelength	λ_p		565		nm	IF=20mA
Spectral Line Half-Width	$\Delta\lambda$		30		nm	IF=20mA
Dominant Wavelength	λ_d		569		nm	IF=20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	IF=20mA
Reverse Current Per Segment	IR			10	μ A	VR=5V
Luminous Intensity Matching Ratio				2:1		IF=10mA

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

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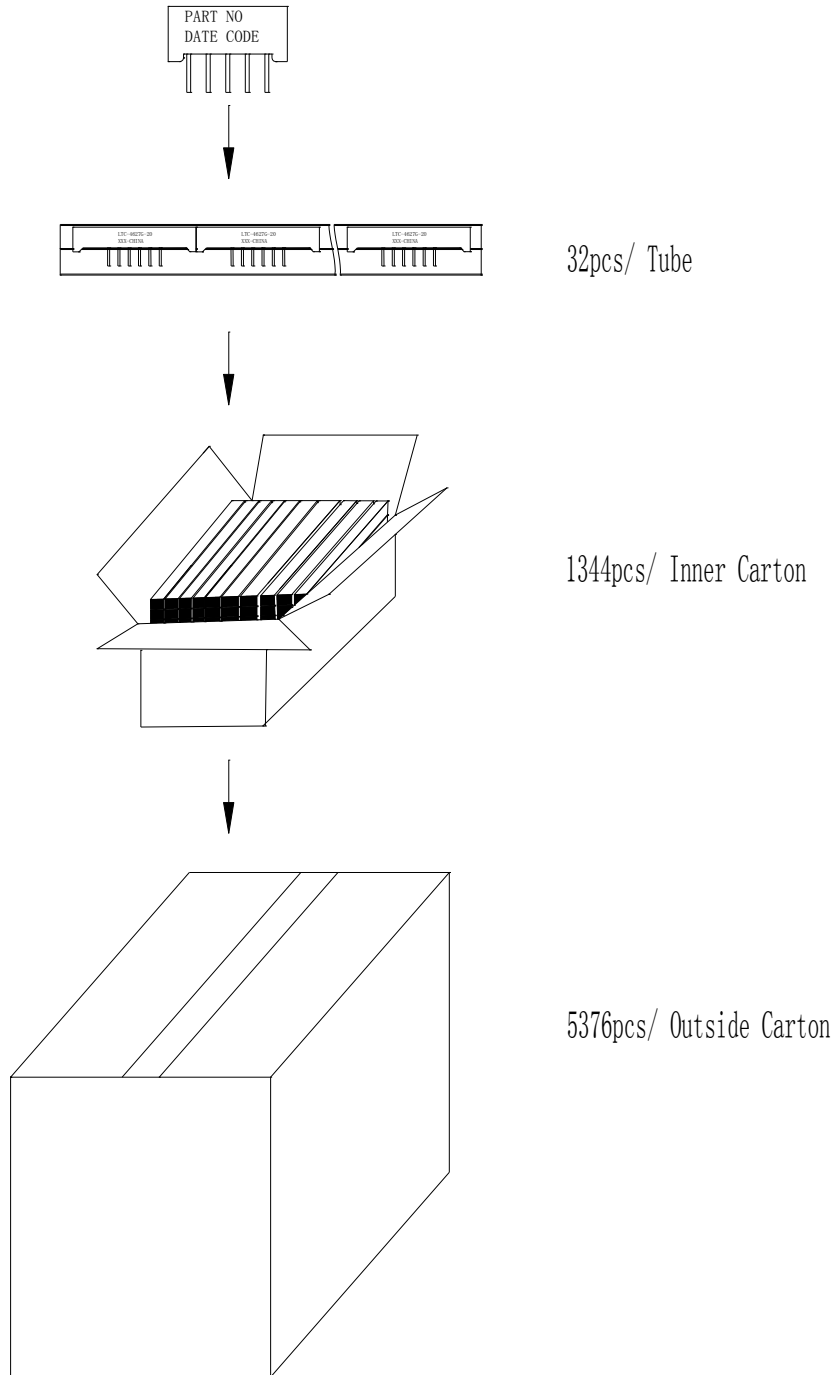
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES (25°C Ambient Temperature Unless Otherwise Noted)

RELATIVE INTENSITY vs WAVELENGTH



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Package Flow



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