ADH-Tech 0.56" Tri-color Digit Number Display ACD8143

	Official Product	ACD8143	Customer Part No.		Data Sheet No.	
Ī		******	******		ACD8143	
Ī	Specifications are subject drawings herein are copy	to change without notice. Data and righted.	Dec. 30, 2015	Version of 1.0	Page 1/8	

Revision History

Revision	Page	Version No.	Revision Date
DS original		1.0	12-30-2015

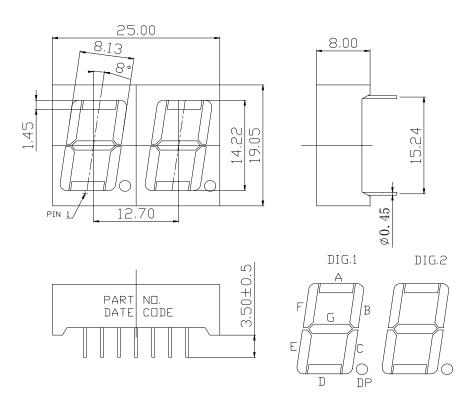
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FEATURES

- *0.56-inch (14.22 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

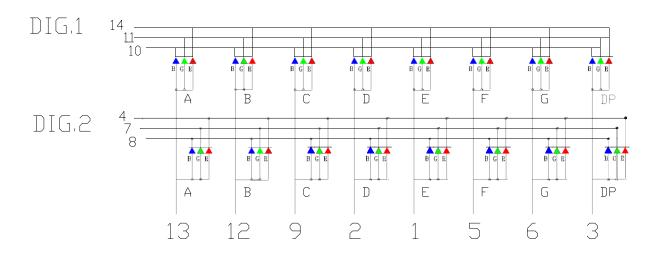
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PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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ABSOLUTE MAXIMUM RATING AT Ta = 25° C

PARAMETER	R	G	В	UNIT	
Power Dissipation Per Segment	150	150	150	mW	
Continuous Forward Current Per	10	5	5	mA	
Segment	10	3	3	ША	
Peak Froward Current	30	15	15	mA	
Reverse Voltage Per Segment	5	5	5	V	
Operating Temperature Range	-30°C to +80°C				
Storage Temperature Range	-40℃ to +100℃				
Soldering Conditions:Max 260°C for max 3sec at 1.6mm below seating plane.					

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

RED

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	lv	13.7	21.7		mcd	IF=10mA
Peak Emission Wavelength	λр		629		nm	IF=10mA
Spectral Line Half-Width	Δλ		16		nm	IF=10mA
Dominant Wavelength	λd		622		nm	IF=10mA
Forward Voltage Per Dot	VF		2.0	2.4	V	IF=10mA
Reverse Current Per Dot	IR			100	μΑ	VR=5V
Luminous Intensity Matching Ratio	lv-m			2:1		IF=10mA

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GREEN

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	lv	34	70		mcd	IF=10mA
Peak Emission Wavelength	λр		520		nm	IF=5mA
Spectral Line Half-Width	Δλ		32		nm	IF=5mA
Dominant Wavelength	λd		530		nm	IF=5mA
Forward Voltage Per Dot	VF		2.85	3.4	V	IF=5mA
Reverse Current Per Dot	IR			100	μΑ	VR=5V
Luminous Intensity Matching Ratio	lv-m			2:1		IF=10mA

BLUE

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	lv	13.7	21.7		mcd	IF=10mA
Peak Emission Wavelength	λр		464		nm	IF=5mA
Spectral Line Half-Width	Δλ		22		nm	IF=5mA
Dominant Wavelength	λd		470		nm	IF=5mA
Forward Voltage Per Dot	VF		2.95	3.4	V	IF=25mA
Reverse Current Per Dot	IR			100	μΑ	VR=5V
Luminous Intensity Matching Ratio	lv-m			2:1		IF=5mA

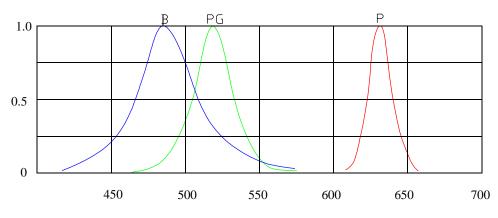
Note:Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

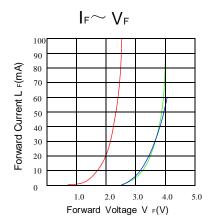
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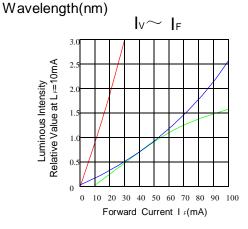
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

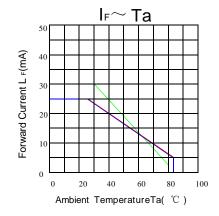
(25°C Ambient Temperature Unless Otherwise Noted)

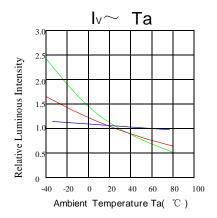
RELATIVE INTENSITY vs WAVELENGTH





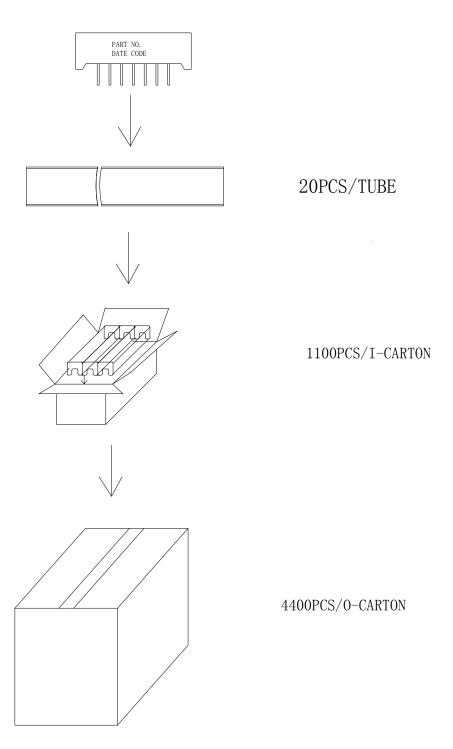






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Pack process:



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