

# EDCON-COMPONENTS

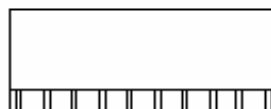
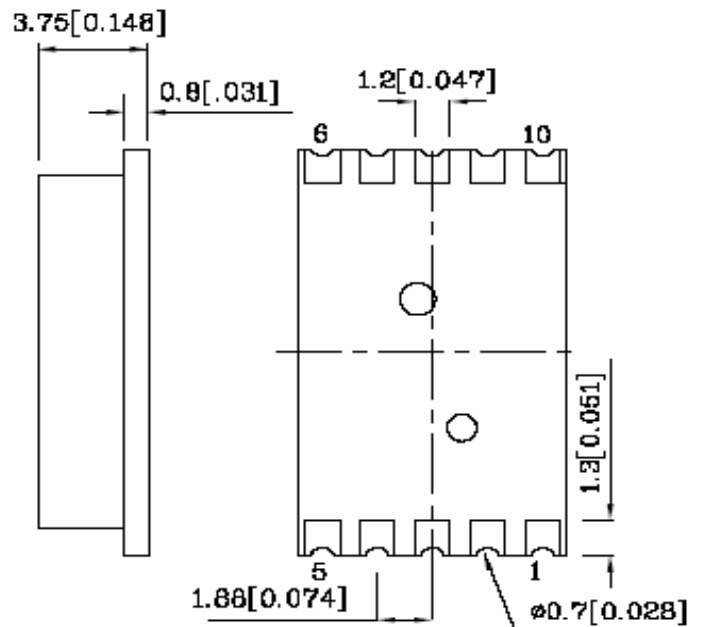


The Power of LED Light



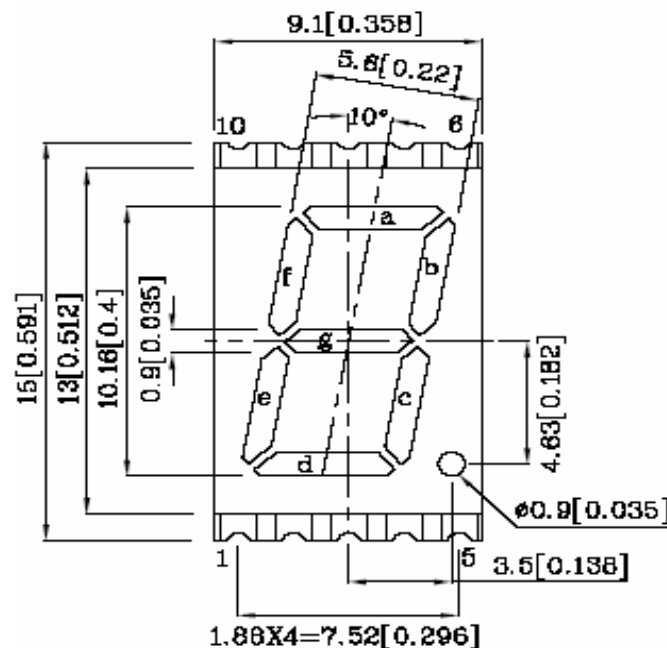
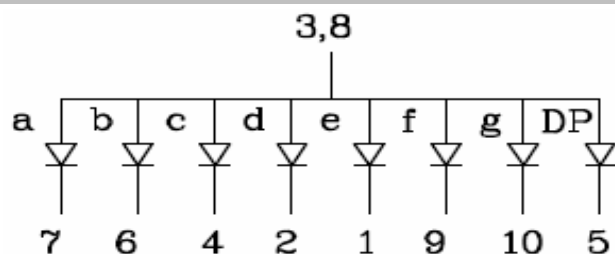
## Dimensions / Informations

## Features



- Low Current Operation
- Excellent Character appearance
- Easy mounting on P.C. Board or Sockets
- Standard High Brightness
- Mechanical Rugged
- Gray Face / White Segment
- Moisture Sensitivity Level: Level 4
- All Dimensions are in millimeters (inches).
- Tolerance is +/- 0,25 (0,01") unless otherwise specified.
- Specifications are subject to change without notice.

## Diode Drive Construction



**SMT Segment Display Digit  
Height 10,16mm**

Part No.: **M21C5013**

Customer:

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	30.09.2010
APPD:	Schumi			FINISH	Jamy		Sheet No.		1 from 7

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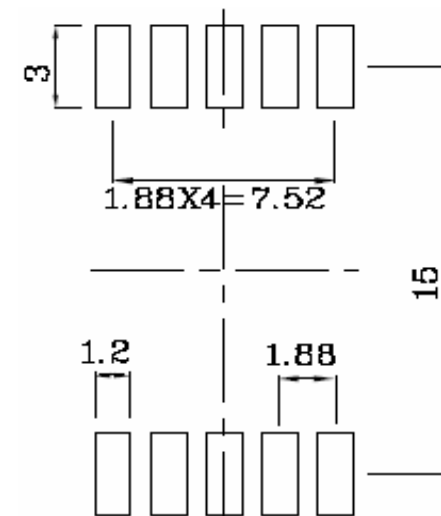
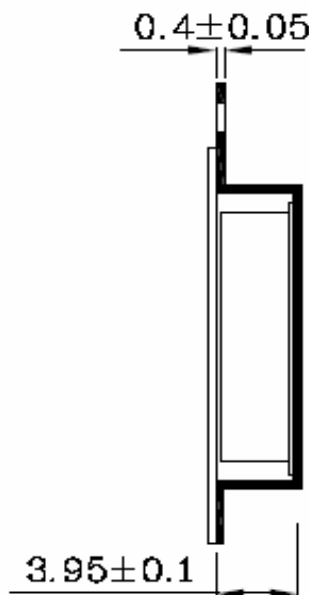
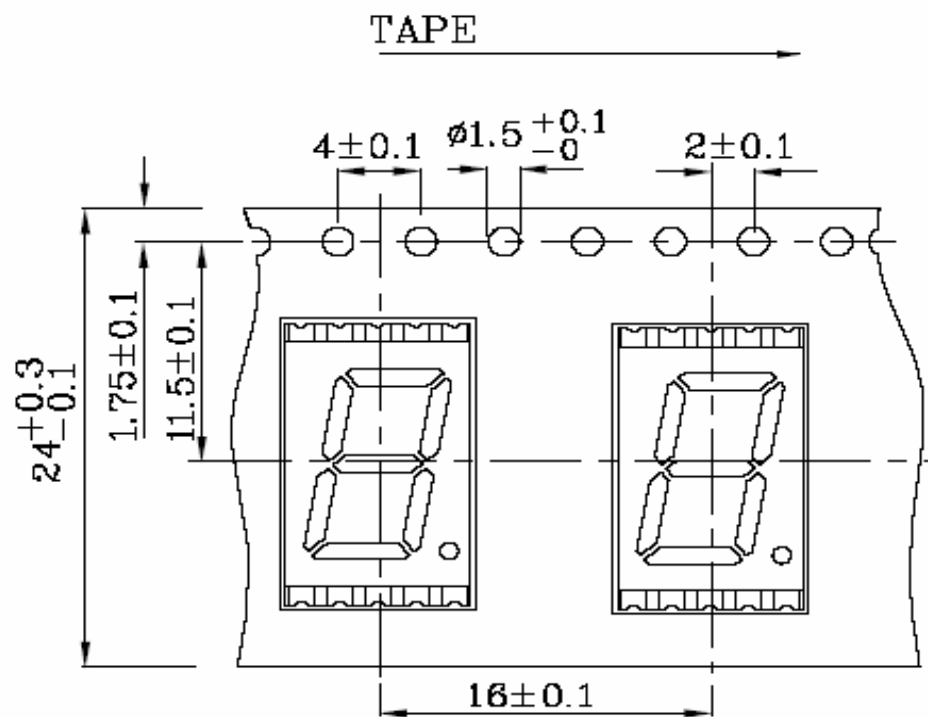


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## Tape specifications

## P.C.B. Layout



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## Description

Part Number	Emitting Color	Emitting Material	Luminous Intensity IF=10mA $\mu$ cd		Wavelength nm	Description
			min	max,		
M21C5013	Green	InGaAlP	4700	17390	574	Commun Anode Right Hand Decimal Point

Operating Characteristics (TA=25°C)		InGaAlP	Unit
Forward Voltage (typ). (IF=10mA)	VF	2,00	V
Forward Voltage (typ). (IF=10mA)	VF	2,5	V
Reverse Current (Max.) (Vr=5V)	IR	10	$\mu$ A
Wavelength of Peak Emission (typ. If=10mA)	P	574	nm
Wavelength / Dominant Emission (typ. If=10mA)	D	570	nm
Spectral Line Full Width at Half-Maximum (typ. 10mA)	$\Delta$	20	nm
Capacitance (typ) (Vf=0V, f=1Mhz)	C	15	pF

Absolute Maximum Ratings (TA=25°C)		InGaAlP	Unit
Reverse Voltage	VF	5	V
Forward Current	IF	30	mA
Forward Current (peak) 1/10Duty Cycle 0,1ms Pulse Width	iFS	150	mA
Power Dissipation	PT	75	mW
Operating Temperature	TA	-.40 ~+85	°C
Storage Temperature	Tstg	-.40 ~+85	

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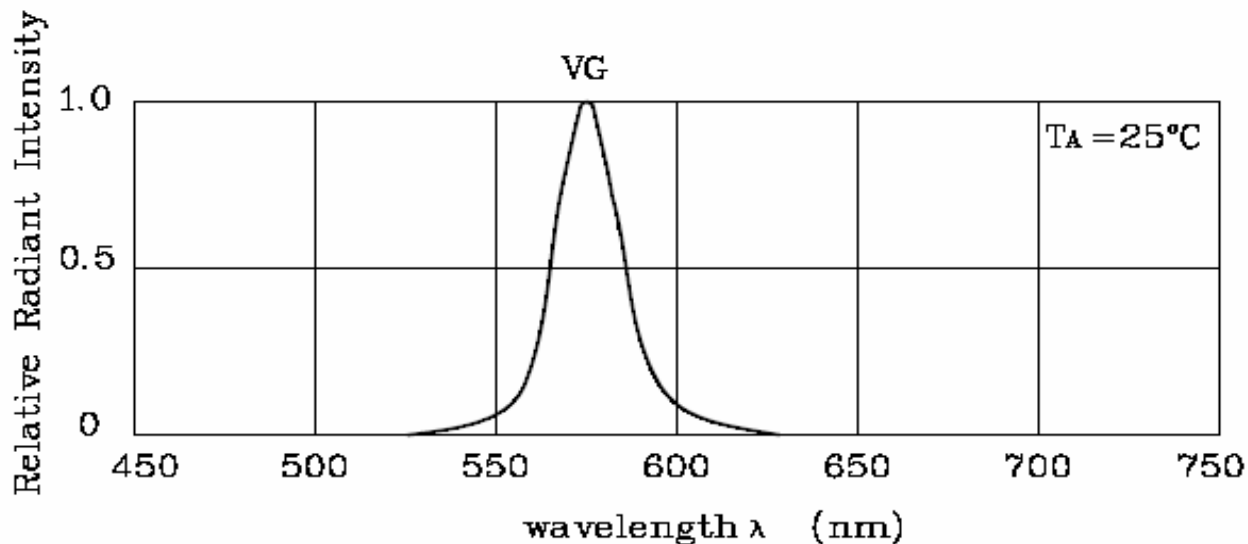
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APPD:	Schumi			FINISH	Jamy		Sheet No.	3 from 7		



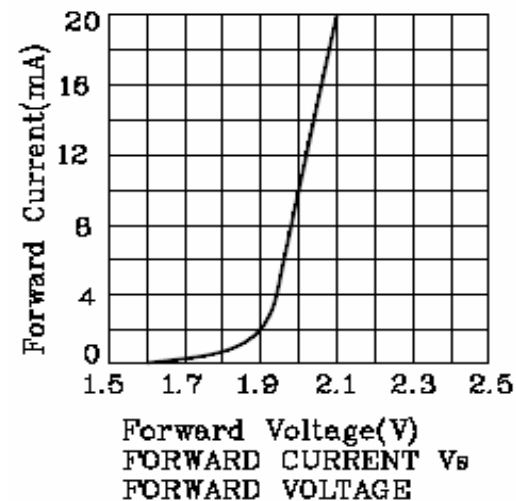
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Characteristics



RELATIVE INTENSITY Vs. WAVELENGTH



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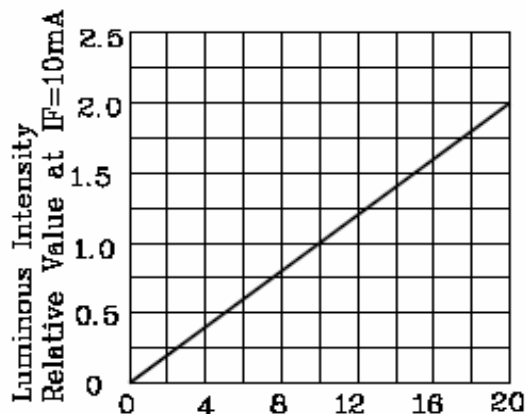
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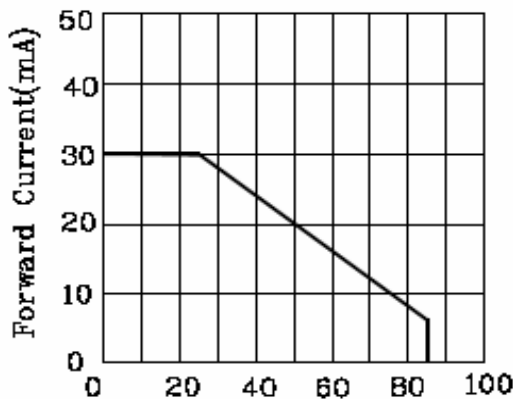
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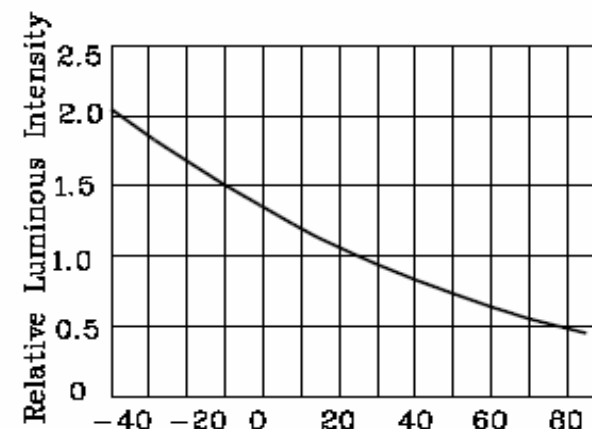
## Characteristics



IF-Forward Current (mA)  
LUMINOUS INTENSITY Vs.  
FORWARD CURRENT



Ambient Temperature Ta (°C)  
FORWARD CURRENT  
DERATING CURVE



Ambient Temperature Ta (°C)  
LUMINOUS INTENSITY Vs.  
AMBIENT TEMPERATURE

If special sorting is required (e.g. binning based on forward voltage, Luminous intensity /luminous flux, or wavelength).

the typical accuracy of the sorting process is as follows.

Wavelength: +/-1nm

Luminous Intensity / Luminous Flux: +/- 15%

Forward Voltage: +/-0,1V

Note: Accuracy may depend on the sorting parameters.

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[www.edcon-components.com](http://www.edcon-components.com)

email: [info@edcon-components.com](mailto:info@edcon-components.com)

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## Ordering Informations

Serie	Digit Height Code	Quantity of Digits	Model Number	Diode Drive Code	Emitting Color (nm)	Surface Color Code	Segment Color Code	No Function	ROHS	Package
<b>M21C5013</b>	<b>40</b>	<b>1</b>	<b>1</b>	<b>A</b>	<b>574</b>	<b>2</b>	<b>1</b>	<b>XX</b>	<b>R</b>	<b>TR</b>

<b>40= 0,40"</b> Digit Dimension	<b>1= Single</b> Digit	<b>1= Model</b> Number 1	<b>A= Commun</b> Cathode
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<b>2= Gray</b> Surface	<b>1= White</b> Diffused	<b>XX= No</b> function	<b>R= ROHS</b> conform <b>N= NON</b> ROHS conform	<b>TR= Tape</b> Reel Packing
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Soldering Profile Curve

Classification Reflow Profile (JEDEC J-STD-020C)



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