

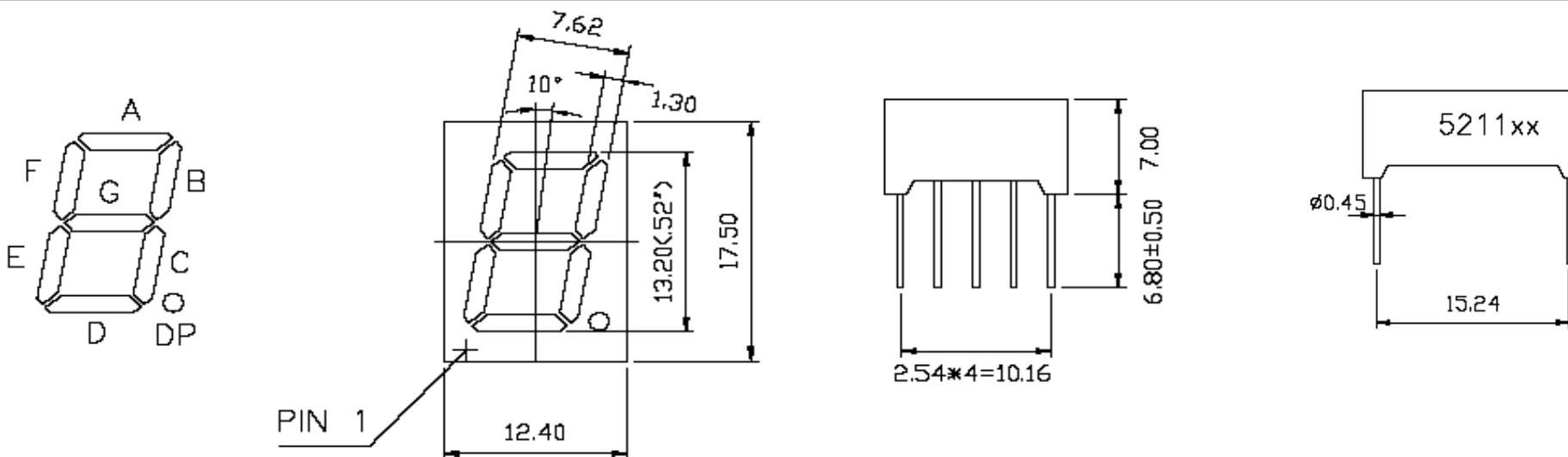
EDCON-COMPONENTS



The Power of LED Light



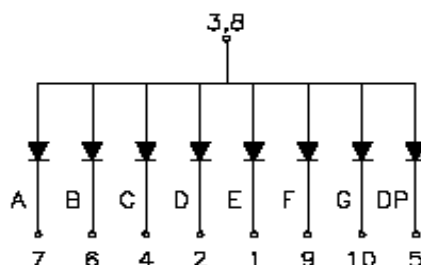
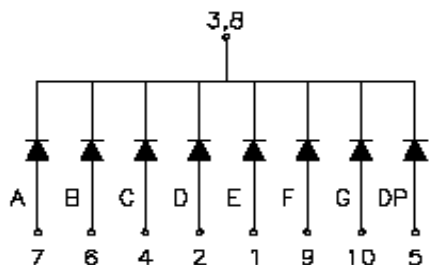
Dimensions / Informations Model No. 1



Package Dimensions & Internal Circuit Diagramm

Diode Drive Code A

Diode Drive Code B



Features

- Low Current Operation
- Excellent Character appearance
- Easy mounting on P.C. Board or Sockets
- Standard Brightness / Ultra Brightness
- All Dimensions are in millimeters (inches).
- Tolerance is +/- 0,25 (0,01") unless otherwise specified.
- Specifications are subject to change without notice.

**Segment Display Digit
Height 13,2mm**

Part No.: **M21A1040**

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	30.09.2010	Customer:
APPD:	Schumi			FINISH	Jamy		Sheet No.	1 from 6		

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Description

Emitting Order Code (nm)	Emitting Color	Dice Material	Peak Wave Length	Spectral Line Width	Forward Voltage (VF)		Luminous Intensity (Iv) Unit: mcd
					Unit:V	Unit:V	
700A	Red	GaP	700nm	90nm	2,20	2,50	5,0
660A	Hi Red	AlGaAs, (A)	660nm	20nm	1,80	2,20	15~20
660B	Super Red	AlGaAs, (B)	660nm	20nm	1,80	2,20	20~30
660C	Ultra Red	AlGaAs, (C)	660nm	20nm	1,90	2,40	26~38
640A	High Efficiency Red	GaAsP	640nm	45nm	1,90	2,40	50~80
630A	Orange	GaAsP	630nm	35nm	2,10	2,50	10~20
610A	Amber	GaAsP	610nm	35nm	2,10	2,50	15~20
590A	Yellow	GaAsP	590nm	35nm	2,10	2,50	15~20
570A	Green	GaP	570nm	30nm	2,10	2,50	14~18
645U	Ultra Hi Red	AlGaInP	645nm	20nm	2,10	2,50	80~50
630U	Ultra Orange	AlGaInP	630nm	20nm	2,10	2,50	180~120
610U	Ultra Amber	AlGaInP	610nm	20nm	2,10	2,50	90~120
590U	Ultra Yellow	AlGaInP	590nm	20nm	2,10	2,50	150~200
570U	Ultra Green	AlGaInP	570nm	30nm	2,20	2,50	60~100
520U	Ultra Pure Green	InGaN	520nm	36nm	2,80	3,80	260~310
505U	Ultra Blue Green	InGaN	505nm	36nm	2,80	3,80	260~310
430U	Blue	InGaN	430nm	30nm	2,80	3,80	10~20
470U	Ultra Blue Green	InGaN	470nm	30nm	2,80	3,80	80~90
405U	UViolett	InGaN	405nm		2,80	3,80	5~8
2930	White	InGaN	X=0,29 / Y=0,30		2,80	3,80	180~200
2931	Ultra White	InGaN	X=0,29 / Y=0,30		2,80	3,80	180~200

Color Code & Chip Characteristics: Test conditions: IF=20mA

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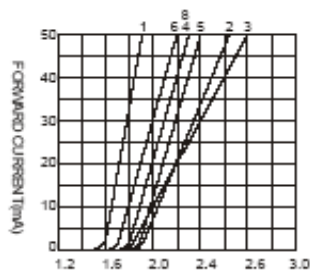
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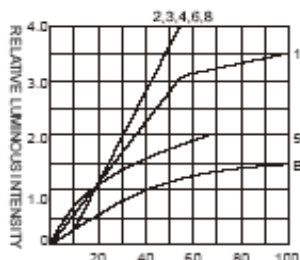
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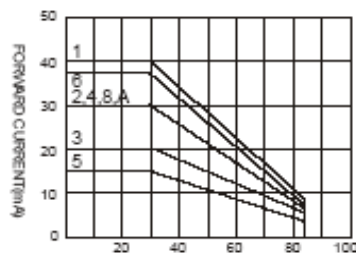
Characteristics



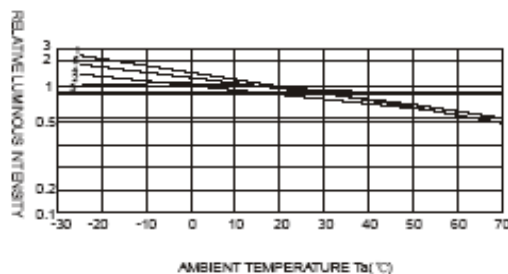
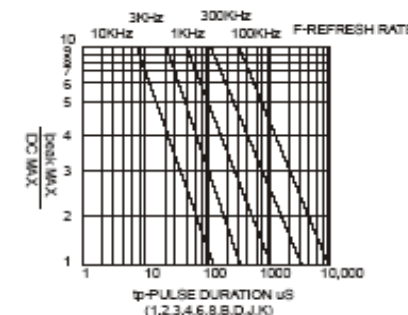
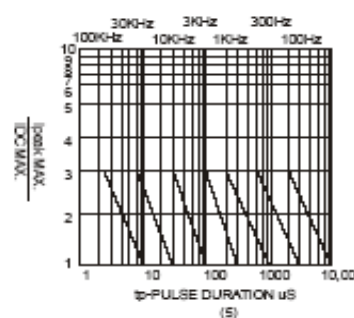
FORWARD VOLTAGE (Vf)
FORWARD CURRENT VS.
FORWARD VOLTAGE



FORWARD CURRENT (mA)
RELATIVE LUMINOUS
INTENSITY VS. FORWARD
CURRENT



AMBIENT TEMPERATURE Ta (°C)
FORWARD CURRENT VS. AMBIENT
TEMPERATURE



Note: 25°C free air temperature unless otherwise specified

**Segment Display Digit
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www.edcon-components.com

email: info@edcon-components.com

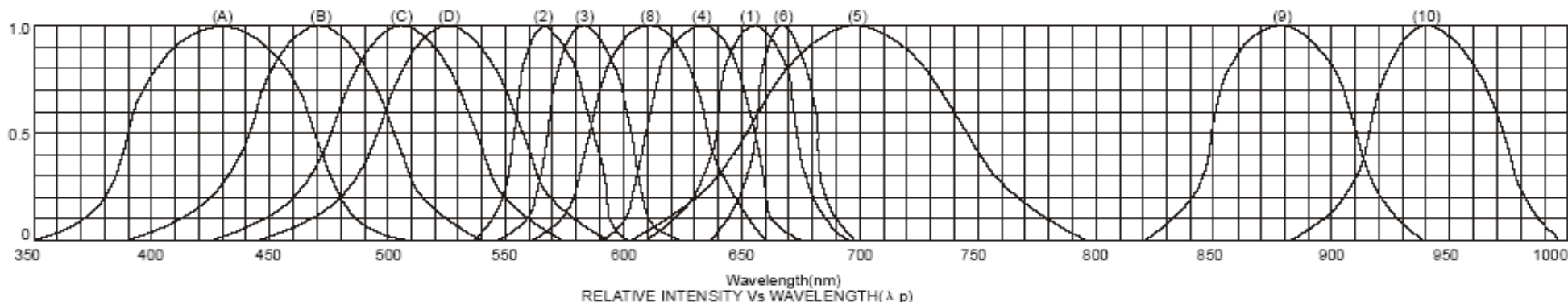
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Characteristics



- | | |
|---|----------------------------------|
| 1 GaAsPI/GaAs 655nm Red | 9 GaAlAs 880nm |
| 2 GaP 570nm / Yellow Green | 10 GaAs/GaAs & GaAlAs/GaAs 940nm |
| 3 GaAsP/GaP 585nm / Yellow | A GaN/SiC 430nm Blue |
| 4 GaAsP/GaP 635nm / Orange & Hi Eff Red | B InGaN/SiC 470nm Blue |
| 5 GaP 700nm Bright /Red | C InGaN/SiC 505nm Ultra Green |
| 6 GaAlAs/GaAs 660nm / Super Red | D InGaN/SiC 525nm Ultra Green |
| 8 GaAsPI/GaP 610nm / Super Red | |

Parameter	Symbol	Test Conditions	Value		Unit
			Min	Max	
Reverse Voltage	VR	IR=30μA	5	----	V
Forward Voltage	IF	----	----	30	mA
Power Dissipation	Pd	----	----	100	mW
Pulse Current	Ipeak	Duty= 0,1mS 1KHZ	----	150	mA
Operating Temperature	Topr	----	-40	+85	°C
Storage Temperature	Tstr	----	-40	+85	°C

Absolute maximum ratings (Ta=25°C)

**Segment Display Digit
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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	Lead Length Code	ROHS	Package
M21A1040	52	1	1	A	700A	2	1	62	R	TY

52= 0,52" Digit Dimension	1= Single Digit	1= Model Number 1	A= Commun Cathode	Standard	Ultra Brightn	0= White Surface	0= Water Clear	62= Lead Length 6,2mm	R= ROHS conform	TY= Tray Packing (Standard)														
				700A= Red	645U= Hi Red						1= Black Surface	1= White Diffused	xx= Lead length Specified	N= NON ROHS conform	TU= Tube Packing on Request									
				660A= Hi Red	630U= Ultra Orange											2= Gray Surface	2= Red Diffused							
				660B= Super Red	610U= Ultra Amber													3= Red Surface	3= Green Diffused					
				660C= Ultra Red	590U= Ultra Yellow															4= Green Surface	4= Yellow Diffused			
				B= Commun Anode	640A= HE Red																	520U= Ultra Pure Green	505U= Ultra Blue Green	
				630A= Orange	570U= Ultra Green																			
				610A= Amber	590A= Yellow																			470U= Ultra Blue
				590A= Yellow	430U= Blue																			
				570A= Green	405U= Ultra Violett																			
2930= White	2931= Ultra White																							

Segment Display Digit Height 13,2mm
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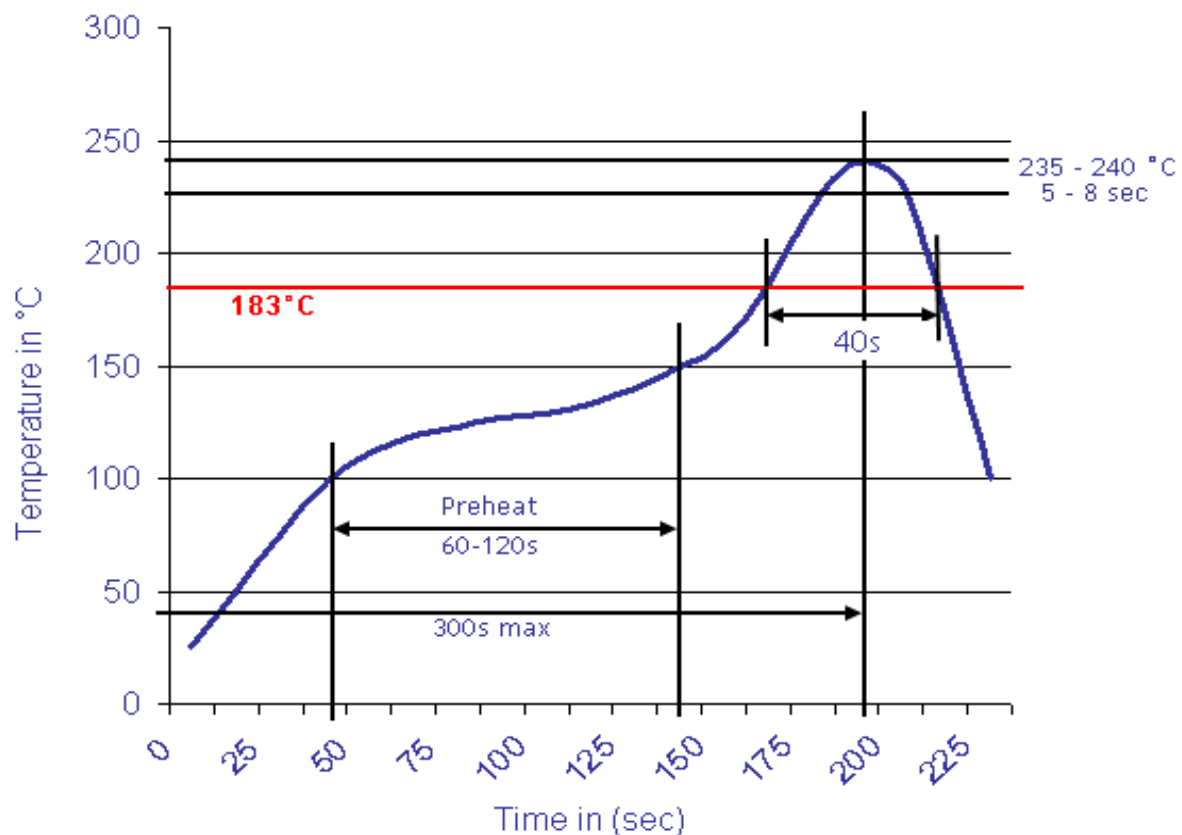


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Soldering Profile Curve

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



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