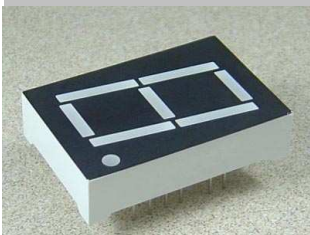


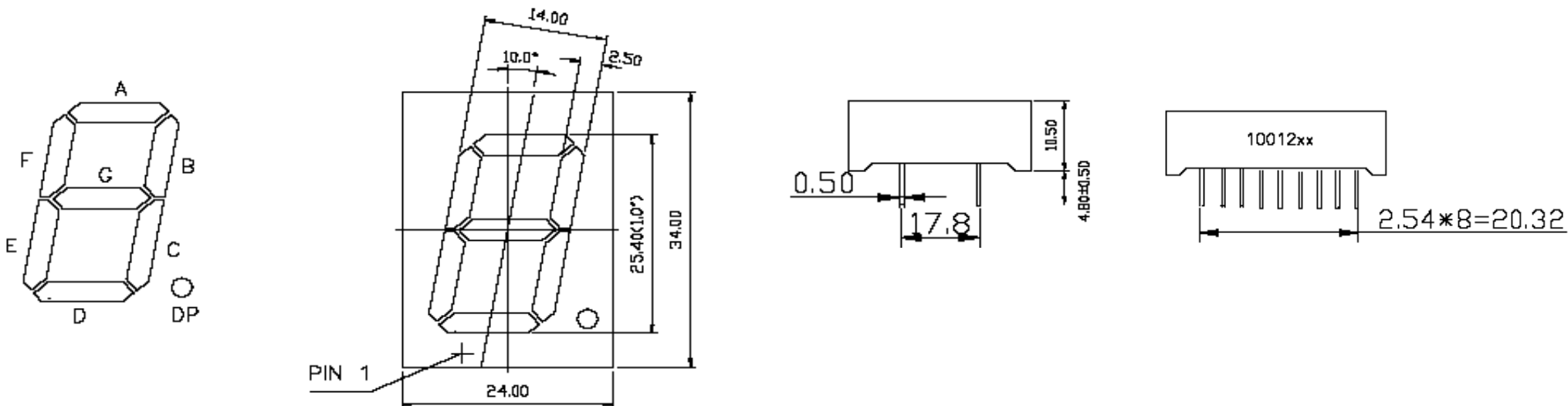
EDCON-COMPONENTS



The Power of LED Light



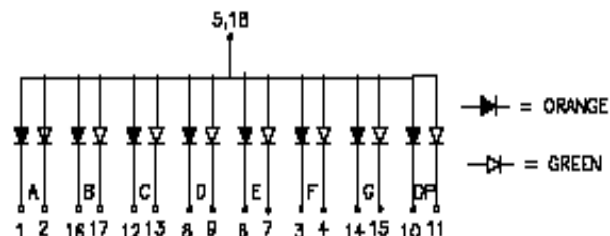
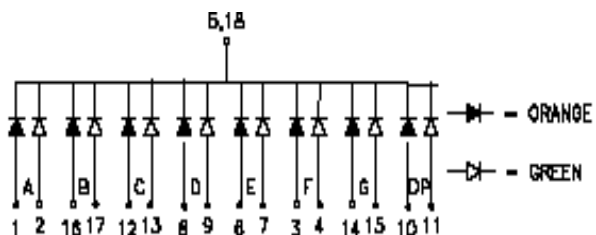
Dimensions / Informations Model No. 2



Package Dimensions & Internal Circuit Diagram

Diode Drive Code C

Diode Drive Code D



Features

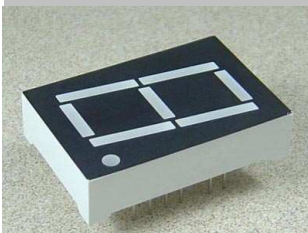
- Low Current Operation
- Excellent Character appearance
- Easy mounting on P.C. Board or Sockets
- Standard Brightness / Ultra Brightness
- All Dimensions are in millimeters (inches).
- Tolerance is +/- 0,25 (0,01") unless otherwise specified.
- Specifications are subject to change without notice.

**Segment Display Digit
Height 25,4mm**

Part No.: **M21A1071**

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

EDCON-COMPONENTS



The Power of LED Light



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 | | |
| 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

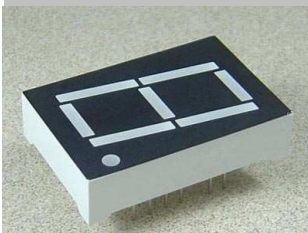
**Segment Display Digit
Height 25,4mm**

Part No.: **M21A1071**

| | | | | | | | | | |
|-------|--------|------|--------|--------|--------|-----------|-----------|------|------------|
| DRW: | Jason | CHKD | Wilson | MATL: | Wilson | TOLERANCE | Mason | DATE | 30.09.2010 |
| APPD: | Schumi | | | FINISH | Jamy | | Sheet No. | | 2 from 6 |

Customer:
email: info@edcon-components.com

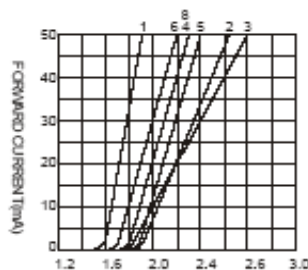
EDCON-COMPONENTS



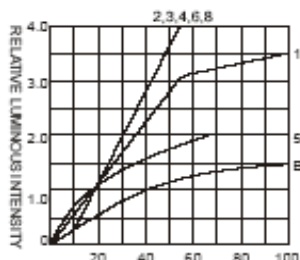
The Power of LED Light



Characteristics



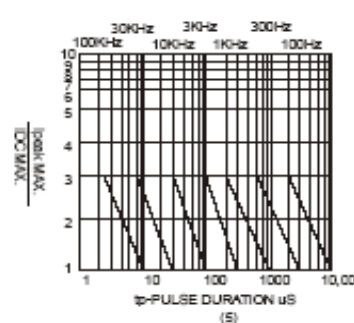
FORWARD VOLTAGE (V)
FORWARD CURRENT VS.
FORWARD VOLTAGE



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



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



Note: 25°C free air temperature unless otherwise specified

**Segment Display Digit
Height 25,4mm**

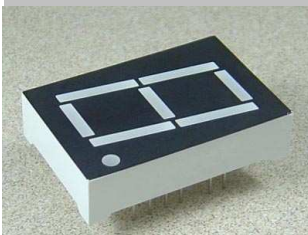
Part No.: **M21A1071**

| | | | | | | | | | |
|-------|--------|------|--------|--------|--------|-----------|-----------|----------|------------|
| DRW: | Jason | CHKD | Wilson | MATL: | Wilson | TOLERANCE | Mason | DATE | 30.09.2010 |
| APPD: | Schumi | | | FINISH | Jamy | | Sheet No. | 3 from 6 | Customer: |

www.edcon-components.com

email: info@edcon-components.com

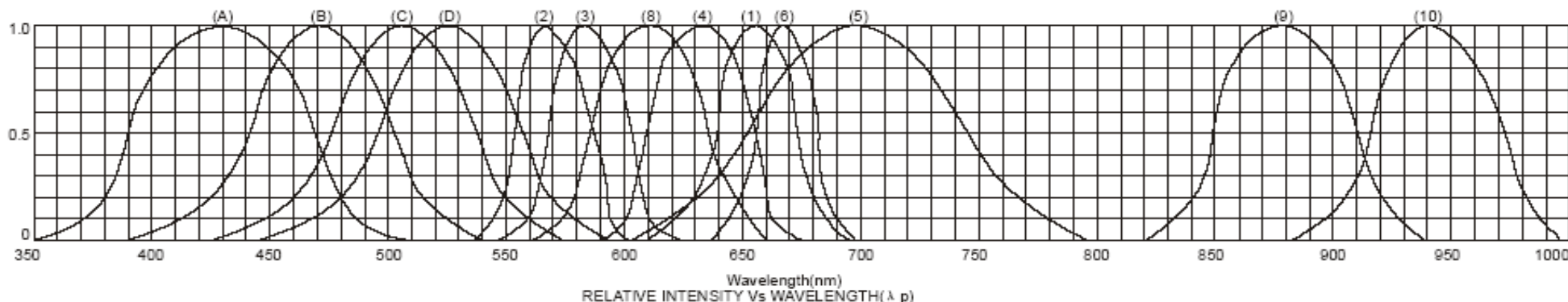
EDCON-COMPONENTS



The Power of LED Light



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 | |

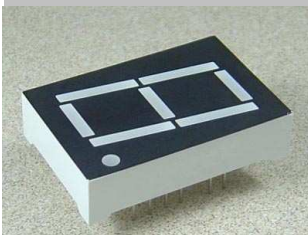
| Parameter | Symbol | Test Conditions | Value | | Unit |
|-----------------------|--------|------------------|-------|------|------|
| | | | Min | Max | |
| Reverse Voltage | VR | IR=30μA | 5 | ---- | V |
| Forward Voltage | IF | ---- | ---- | 30 | mA |
| Power Dissipation | Pd | ---- | ---- | 100 | 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 Height 25,4mm | |
| Part No.: | M21A1071 |
| Customer: | |

| | | | | | | | | | |
|-------|--------|------|--------|--------|--------|-----------|-----------|------|------------|
| DRW: | Jason | CHKD | Wilson | MATL: | Wilson | TOLERANCE | Mason | DATE | 30.09.2010 |
| APPD: | Schumi | | | FINISH | Jamy | | Sheet No. | | 4 from 6 |

EDCON-COMPONENTS



The Power of LED Light



Ordering Informations

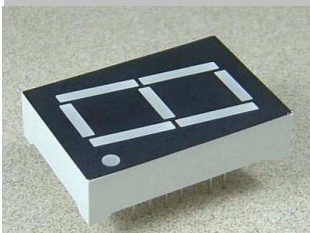
| Serie | Digit Height Code | Quantity of Digits | Model Number | Diode Drive Code | Emitting Color (nm) | Surface Color Code | Segment Color Code | Lead Length Code | ROHS | Package |
|-----------------|-------------------|--------------------|--------------|------------------|---------------------|--------------------|--------------------|------------------|----------|----------|
| M21A1071 | 100 | 1 | 2 | C | ORGN | 2 | 1 | 62 | R | Y |

| | | | | | | | | | | | |
|-------------------------------------|-------------------------|---------------------------|---------------------------|--|--|--------------------------|--------------------------|--|--|--|----------------------------|
| 100 = 0,100" Digit Dimension | 1 = Single Digit | 2 = Model Number 2 | | | | 0 = White Surface | 0 = Water Clear | 62 = Lead Length 6,2mm xx = Lead length Specified | R = ROHS conform N = NON ROHS conform | Y = Tray Packing (Standard) U = Tube Packing on Request | |
| | | | C = Commun Cathode | | | | 1 = Black Surface | | | | 1 = White Diffused |
| | | | | | | | 2 = Gray Surface | | | | 2 = Red Diffused |
| | | | | | | | 3 = Red Surface | | | | 3 = Green Diffused |
| | | | | | | | 4 = Green Surface | | | | 4 = Yellow Diffused |
| | | | | | | | | | | | |
| | | | D = Commun Anode | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Segment Display Digit Height 25,4mm

Part No.: **M21A1071**

| | | | | | | | | | | |
|-------|--------|------|--------|--------|--------|-----------|-------|-----------|------------|-----------|
| DRW: | Jason | CHKD | Wilson | MATL: | Wilson | TOLERANCE | Mason | DATE | 30.09.2010 | Customer: |
| APPD: | Schumi | | | FINISH | Jamy | | | Sheet No. | 5 from 6 | |

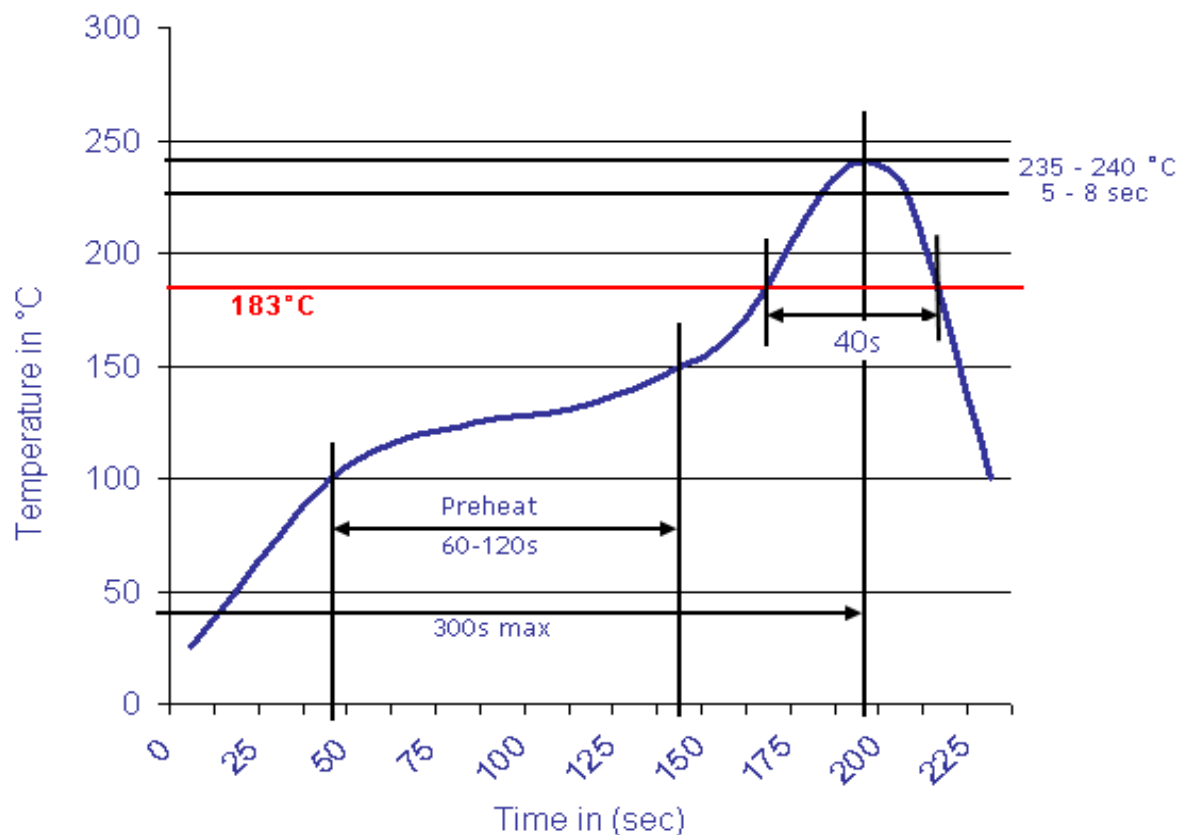


The Power of LED Light



Soldering Profile Curve

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



**Segment Display Digit
Height 25,4mm**

Part No.: **M21A1071**

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