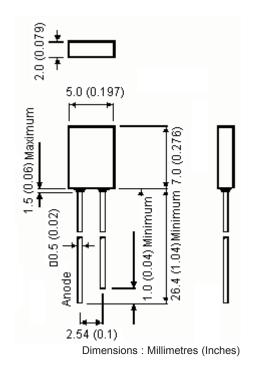
| multicomp | PART NO. | | | REVISIONS | | | | | | |
|------------------|----------|-------|-----|-------------|--------|---------|--------|---------|--------|---------|
| | | ECN # | REV | DESCRIPTION | DRAWN | DATE | CHECKD | DATE | APPRVD | DATE |
| | MCL453YD | - | А | RELEASED | Geetha | 28/5/08 | Suresh | 28/5/08 | G. C | 12/6/08 |
| | | | | | | | | | | |



Specifications:

| Dice material | : GaAsP on GaP. |
|-------------------------|--------------------|
| Emitted color | : Yellow. |
| Lens color | : Yellow diffused. |
| Peak wavelength | : 587nm. |
| Viewing angle | : 120 degrees. |
| Luminous intensity (IV) | : 3.4mcd. |
| | |



Electrical/Optical Characteristics at $T_a = 25^{\circ}C$

| Parameter | Symbol | Minimum | Typical | Maximum | Unit | Test |
|---|-----------|---------|---------|---------|---------|------------|
| Luminous Intensity | IV | 1.1 | 3.4 | 3.6 | mcd | IF = 20mA |
| Viewing Angle | 20 1/2 | - | 120 | - | degrees | 1F - 2011A |
| Peak Emission Wavelength | • ₱ | - | 587 | - | | - |
| Dominant Wavelength | • 10 | - | 590 | - | nm | - |
| Spectral Line Half-Width | Δλ | - | 35 | - | | - |
| Forward Voltage | VF | 1.7 | 2.1 | 2.6 | V | IF = 20mA |
| Power Dissipation | Pd | - | - | 85 | - | - |
| Peak Forward Current (Duty 1/10 at 1KHz) | IF (Peak) | - | - | 100 | - | - |
| Recommended Operating Current | IF (Rec) | - | 20 | - | mA | - |

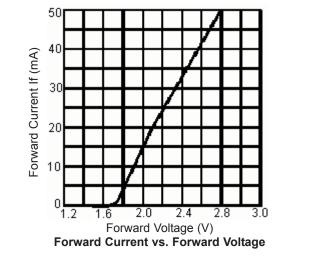
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| information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change with- | UNLESS OTHERWISE | Geetha | 28/05/08 | 2.0mm x 5.0mm Rectangular LED Lamp - Yellow | | | | | | |
| be | out notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the prod- ucts for their purpose and not make any assumptions based on information included or | SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY. | CHECKED BY: | DATE: | SIZE DWG NO. | WG NO | | ELECTRONIC FILE | | |
| da ud | | | Suresh | 28/05/08 | | M10001147 | L453YD DWG | | A | |
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| o | Porsibility of such hose of carriage ansating is excluded. This with the operate to initial restrict the Group's liability for death or personal injury resulting from its negligence. PC MULTICOMP is the registered trademark of the Group. © Premier Farnell plc 2008. | | G.Cook | 12/06/08 | SCALE: NTS | U.O.M.: mm (Inches) | | SHEET: 1 C | OF 4 | |

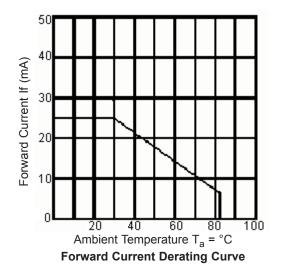
| | multicomp | PART NO. | | | REVISIONS | | | | | | |
|--|-----------|----------|-------|-----|-------------|--------|---------|--------|---------|--------|---------|
| | | | ECN # | REV | DESCRIPTION | DRAWN | DATE | CHECKD | DATE | APPRVD | DATE |
| | | MCL453YD | - | А | RELEASED | Geetha | 28/5/08 | Suresh | 28/5/08 | G. C | 12/6/08 |
| | | | | | | | | | | | |

Absolute Maximum Ratings ($T_a = 25^{\circ}C$)

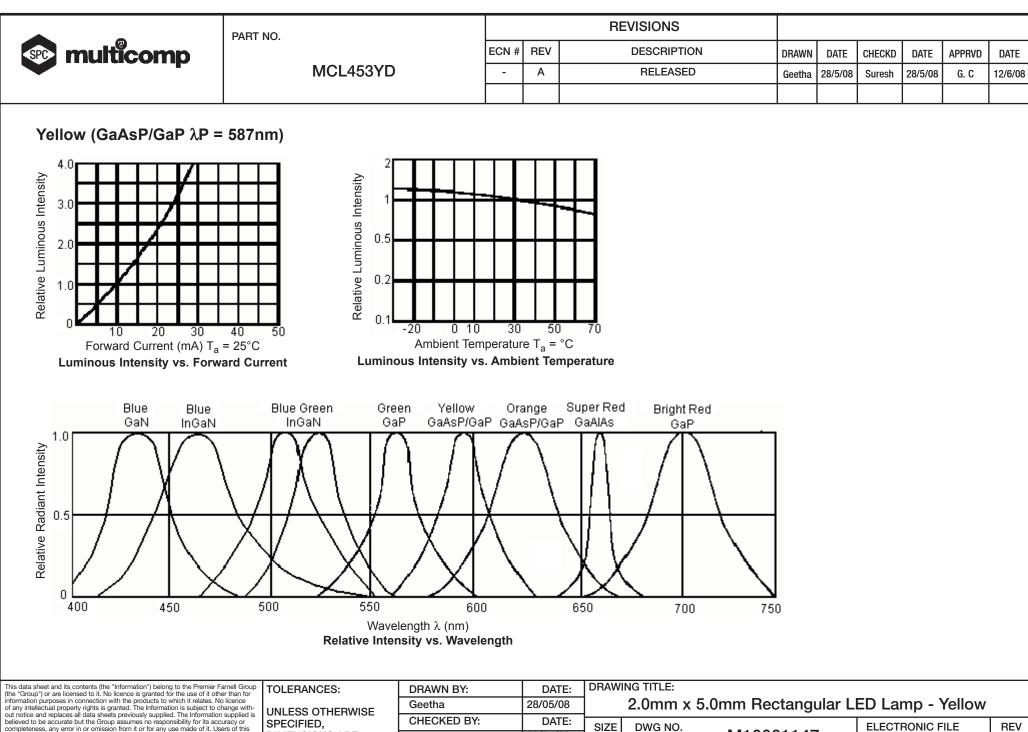
| Reverse Voltage | 5 Volt |
|---|----------------------------|
| Reverse Current | 10μA (V _R = 5V) |
| Operating Temperature Range | -40°C to 85°C |
| Storage Temperature Range | -40°C to 100°C |
| Lead Soldering Temperature Range 1.6mm (1/16 inch) from body | 260°C for 5 Seconds |

Yellow (GaAsP/GaP λ P = 587nm)





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| | | CHECKED BY: | DATE: | SIZE DWG NO. | | ELECTRONIC FILE | REV | | | |
| data sheet should check for themselves the Information and the suitability of the prod- ucts for their purpose and not make any assumptions based on information included or | | Suresh | 28/05/08 | | M10001147 | L453YD DWG | A | | | |
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|--------------|----------|------|---|---------------------|-------|---------------|--|--|--|--|--|
| Geetha | 28/05/08 | | 2.0mm x 5.0mm Rectangular LED Lamp - Yellow | | | | | | | | |
| CHECKED BY: | DATE: | SIZE | DWG NO. | | ELEC | REV | | | | | |
| Suresh | 28/05/08 | Δ | M10001147 | | L4531 | A | | | | | |
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|-----------|----------|-------|-----|-------------|--------|---------|--------|---------|--------|---------|
| multicomp | | ECN # | REV | DESCRIPTION | DRAWN | DATE | CHECKD | DATE | APPRVD | DATE |
| | MCL453YD | - | Α | RELEASED | Geetha | 28/5/08 | Suresh | 28/5/08 | G. C | 12/6/08 |
| | | | | | | | | | | |

Part Number Table

| Description | Part Number |
|----------------------------|-------------|
| LED, 2mmX5mm, 120°, Yellow | MCL453YD |

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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| | SPECIFIED, | CHECKED BY: | DATE: | SIZE DWG NO. | | ELECTRONIC FILE | REV | | |
| | DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY. | Suresh | 28/05/08 | Δ | M10001147 | L453YD DWG | A | | |
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