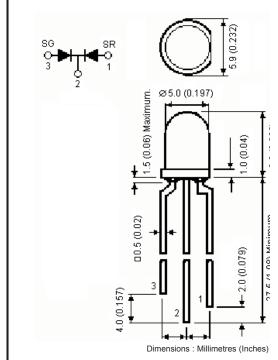
| e multicomp | PART NO. | | | REVISIONS | | | | | | |
|-------------|-------------|-------|-----|-------------|-------|----------|---------|----------|---------|----------|
| | | ECN # | REV | DESCRIPTION | DRAWN | DATE | CHECKD | DATE | APPRVD | DATE |
| | MCL059PURGW | - | Α | RELEASED | Ramya | 14/10/09 | Sridhar | 14/10/09 | Farnell | 28/10/09 |
| | | | | | | | | | | |



Specifications:

| Dice material | |
|-------------------------|--|
| Emitted colour | |
| Lens colour | |
| Peak wavelength | |
| Viewing angle | |
| Luminous intensity (IV) | |
| | |



.



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

| Parameter | Symbol | Minimum | Typical | Maximum | Unit | Test |
|---|-----------|---------|---------|---------|---------|------------|
| Luminous Intensity | IV | 8/7 | 16/15 | 25/22 | mcd | IF = 20mA |
| Viewing Angle | 20 1/2 | - | 45 | - | degrees | IF - 2011A |
| Peak Emission Wavelength | • p | - | 635/568 | - | | - |
| Dominant Wavelength | • 10 | - | 625/570 | - | nm | - |
| Spectral Line Half-Width | Δλ | - | 45/30 | - | | - |
| Forward Voltage | VF | 1.6/1.7 | 2.0/2.1 | 2.6/2.6 | 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 | - |

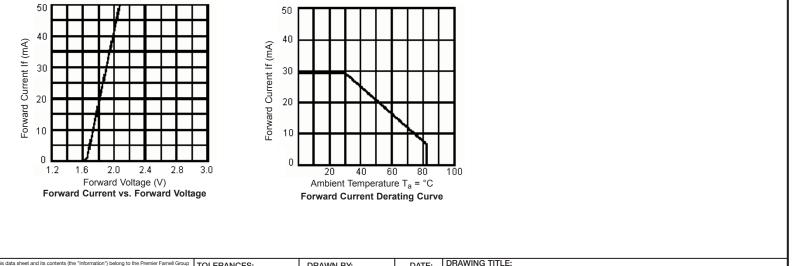
| - L | | | | | | | | |
|-----|---|---------------------------------|--------------|----------|----------------|---------------------|-------------------|-----|
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| - 1 | information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change with- | UNLESS OTHERWISE | Ramya | 14/10/09 |] 5.0mm M | Iulti-colour LED L | .amp - HI Red/Gre | en |
| - 1 | 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 | SPECIFIED, | CHECKED BY: | DATE: | SIZE DWG NO. | | ELECTRONIC FILE | REV |
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| | | | | | | | | | | |

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 |

Super Red (GaAlAs) λP = 660nm)



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| | | | | | | | | | | | |
| Super Red (GaAlAs) λP = | $\begin{array}{c} 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$ | - 20 0 10 Ambient Temp | erature 6. Ambi | T _a = °(ent Ter | ; nperature | | | | | | |
| Blue Blue GaN InGaN 1.0 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | | een Yellow aP GaAsP/G | aP GaA | ange sP/GaF | Super Red GaAlAs GaP | 750 | | | | | |
| | | elength λ (nm) | | | | | | | | | |
| | | ensity vs. Wave | length | | | | | | | | |
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| | FANT NO. | | ECN # | REV | DESCRIPTION | DRAWN | DATE | CHECKD | DATE | APPRVD | DATE | | |
| | MCL059PURG | W | - | A | RELEASED | Ramya | 14/10/09 | Sridhar | 14/10/09 | Farnell | 28/10/09 | | |
| | | | | | | | | | | | | | |
| Green (GaP λ P = 568nm) 50 40 30 20 10 1.2 1.6 2.0 2.4 Forward Voltage (V) Forward Current vs. Forward | | 20 40 Ambient Temper | | | 100 | | | | | | | | |
| 4.0 Aiseu J 3.0 2.0 1.0 1.0 10 20 30 4.0 10 20 30 4.0 10 20 30 4.0 10 20 30 4.0 10 20 50 4.0 50 50 50 50 50 50 50 50 50 5 | d Current | 20 0 10 Ambient Tempe s Intensity vs. | | | 70 Perature | | | | | | | | |
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| data sheet should check for themselves the Information and the suitability of the | DIMENSIONS ARE | Sridhar | | DATE 14/10/09 | | M10002396 | ; | | | | REV | | |
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