

# MICRO

ELECTRONICS

M2012G

HIGH BRIGHTNESS  
STANDARD GREEN  
SURFACE LIGHTING

## FEATURES:

AlGaInP/GaAs Standard Green Chip  
Green Diffused Lens  
Low Power Requirements  
Wide Viewing Angle

## ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

|   |      |              |
|---|------|--------------|
| Power dissipation/Chip  | Pd   | 60mW         |
| Continuous Forward Current/Chip                                       | IF   | 20mA         |
| Peak Forward Current/Chip<br>(*Pulse Width = 1ms , Duty Ratio = 1/10) | *IFP | 100mA        |
| Reverse Voltage   | VR   | 5V           |
| Operating Temperature Range   | Topr | -20 to +80°C |
| Storage Temperature Range   | Tstg | -25 to +85°C |
| Solder Temperature (1/16 Inch from body)                              |      | 260°C        |
| Maximum Soldering Time(≤260°C)  |      | 5 sec        |

## ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

| PARAMETER                | SYMBOL         | MIN | TYP | MAX | UNIT | CONDITIONS                |
|--------------------------|----------------|-----|-----|-----|------|---------------------------|
| Forward Voltage/Chip     | V <sub>F</sub> |     | 2.1 | 2.8 | V    | I <sub>F</sub> =20mA      |
| Reverse Current/Chip     | I <sub>R</sub> |     |     | 100 | μA   | V <sub>R</sub> =5V        |
| Peak Wavelength          | λ <sub>p</sub> |     | 564 |     | nm   | I <sub>F</sub> =20mA      |
| Dominant Wavelength      | λ <sub>d</sub> | 558 | 562 | 566 | nm   | I <sub>F</sub> =20mA      |
| Spectral Line Half Width | Δλ             |     | 20  |     | nm   | I <sub>F</sub> =20mA      |
| Luminous Intensity       | IV             | 5   | 15  |     | mcd  | I <sub>F</sub> =10mA/Chip |



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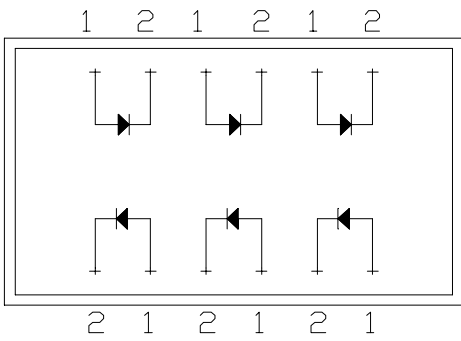
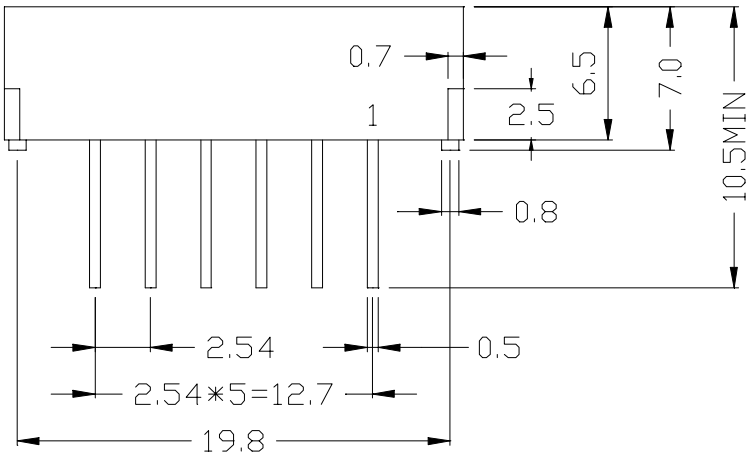
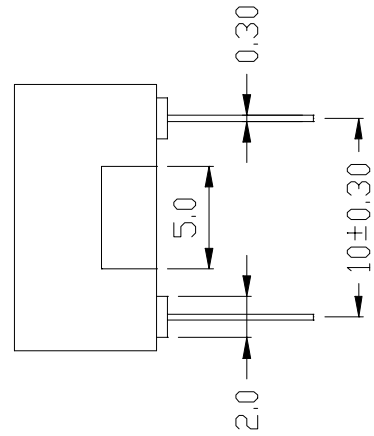
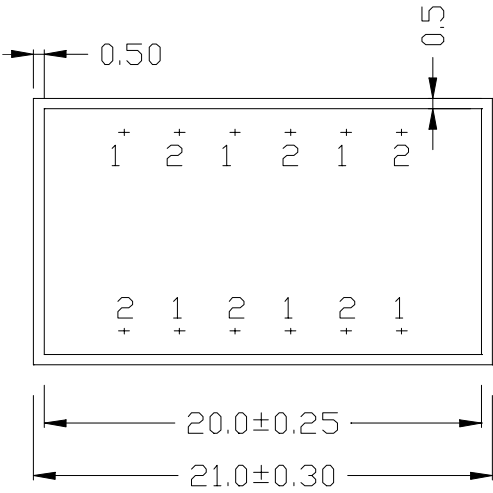
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美科有限公司

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Sheet 1 of 2

# M2012G



Pin connection :  
 1: Anode  
 2: Cathode

Unit : mm  
 Tol. :  $\pm 0.3$ mm unless otherwise noted

16/5/2005

Sheet 2 of 2