

## AL3-1RGB208M3

**Light color: Red、Green、Blue Color**

**Absolute maximum rating (Ta=25°C)**

- Reverse current: 100  $\mu$ A
- Peak current (duty=0.1,1KHz): 100 mA
- Operating/Storage temperature range: -30°C~ +85°C
- Derating linear from 25°C: 0.4 mA/°C
- Lead soldering temperature range: 260°C for 5 second

**Electro-optical characteristics (TA=25°C)**

### RED COLOR:

| Parameter                | Symbol          | Min | Typ. | Max  | Unit | Test Condition |
|--------------------------|-----------------|-----|------|------|------|----------------|
| Forward voltage          | $V_F$           | ❖   | 2.00 | 2.25 | V    | IF=20 mA       |
| Luminous intensity       | $I_V$           |     | 1200 | ❖    | mcd  | IF=20 mA       |
| Peak emission wavelength | $\lambda_p$     |     | 620  | 630  | nm   | ❖              |
| Half intensity angle     | $\Delta \Theta$ | ❖   | 20   | ❖    | deg  | ❖              |

### GREEN COLOR:

| Parameter                | Symbol          | Min | Typ. | Max | Unit | Test Condition |
|--------------------------|-----------------|-----|------|-----|------|----------------|
| Forward voltage          | $V_F$           | ❖   | 3.2  | 3.5 | V    | IF=20 mA       |
| Luminous intensity       | $I_V$           |     | 4000 | ❖   | mcd  | IF=20 mA       |
| Peak emission wavelength | $\lambda_p$     |     | 515  | 520 | nm   | ❖              |
| Half intensity angle     | $\Delta \Theta$ | ❖   | 20   | ❖   | deg  | ❖              |

### BLUE COLOR:

| Parameter                | Symbol          | Min | Typ. | Max | Unit | Test Condition |
|--------------------------|-----------------|-----|------|-----|------|----------------|
| Forward voltage          | $V_F$           | ❖   | 3.2  | 3.5 | V    | IF=20 mA       |
| Luminous intensity       | $I_V$           |     | 1200 | ❖   | mcd  | IF=20 mA       |
| Peak emission wavelength | $\lambda_p$     |     | 465  | 470 | nm   | ❖              |
| Half intensity angle     | $\Delta \Theta$ | ❖   | 20   | ❖   | deg  | ❖              |

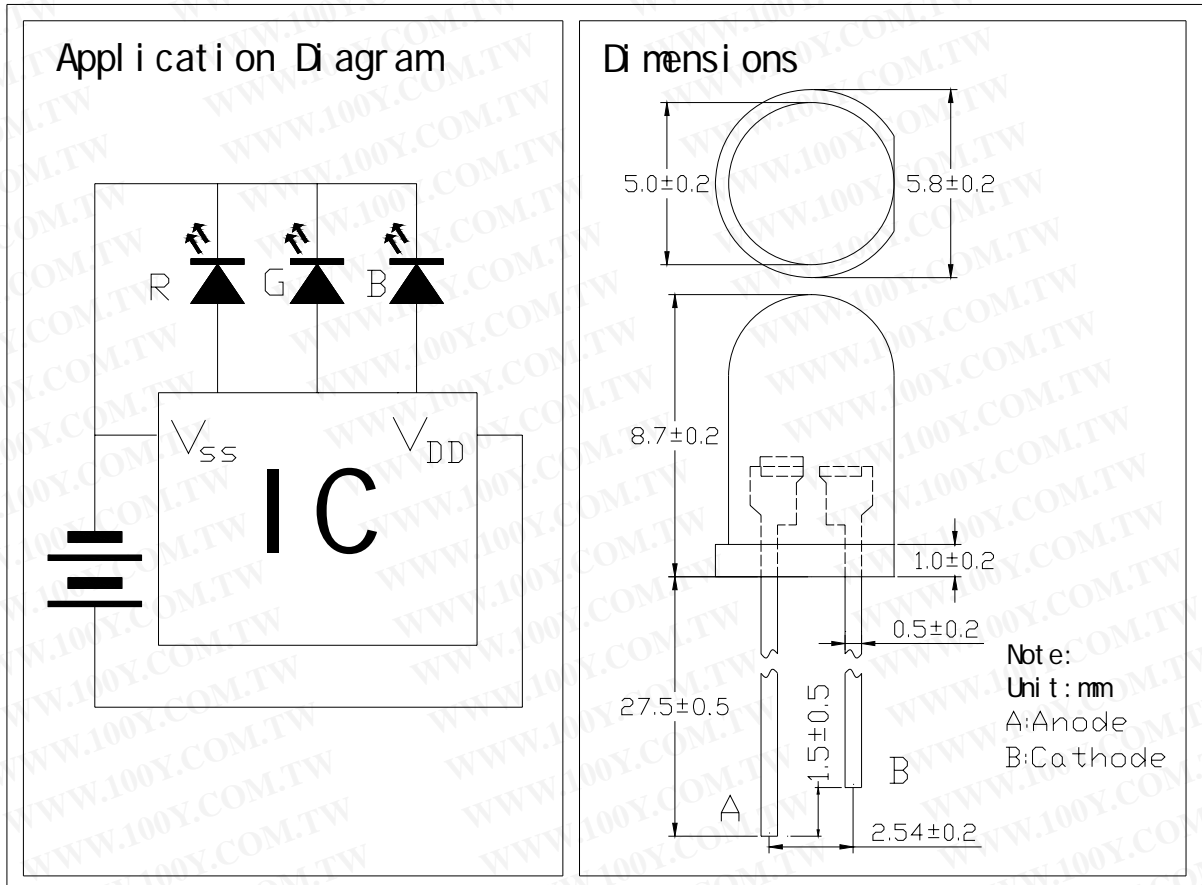
### Direct Current Characteristics

| Parameter         | Symbol    | Min | Typ. | Max | Unit | Remarks             |
|-------------------|-----------|-----|------|-----|------|---------------------|
| Operating voltage | $V_{DD}$  | 2.0 | 3.5  | 3.5 | V    | ❖                   |
| Driver Current    | $I_{ol}$  |     | 35   |     | mA   | @ $V_{DS}=1.2V$     |
| Power Consumption | $P_o$     |     | 180  |     | mW   | $V_{DD}=4.5V$       |
| Flash Frequency   | $F_{tet}$ |     |      | ❖   | Hz   | External $\pm 30\%$ |

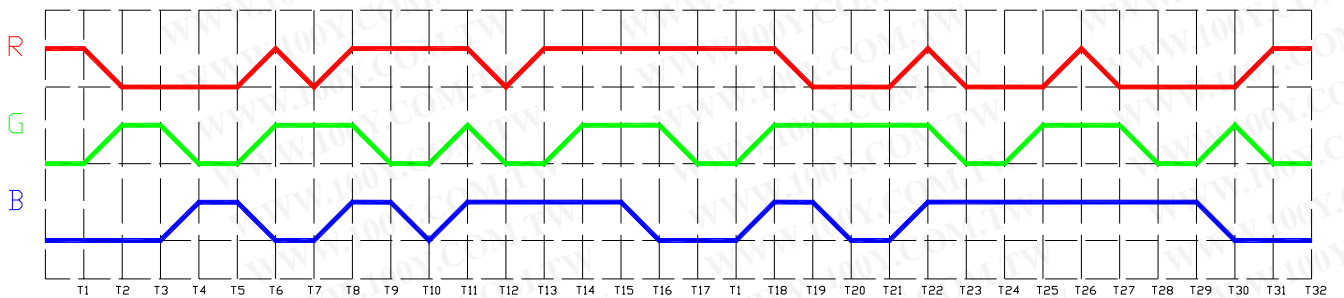
All specs and applications shown above subject to change without prior notice.

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### Application diagram and Dimensions



### Flash Picture



\*All specs and applications shown above subject to change without prior notice.