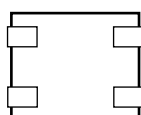
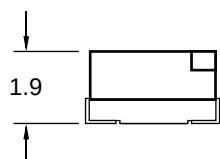
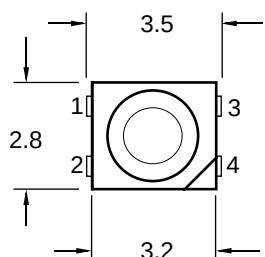


# Surface Mount LED, 0678 Multicolor Series



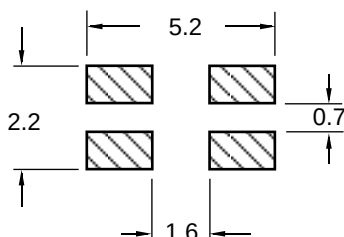
The 0670 series lamps are miniature chip type designed for surface mounting. These lamps are the so-called "Top LED" type, measuring approximately 2.8 x 3.6 mm. These lamps are available in EIA481 tape and reel packaging with approximately 2000 pcs per reel. For tape and reel packaging the series number is 0678.



Pin assignments:

Bi-color: 1. Green cathode  
2. Red anode  
3. Green anode  
4. Red cathode

Full color: 1. Red cathode  
2. Common Anode  
3. Blue cathode  
4. Green cathode



Recommended  
reflow  
solder pattern

## GENERAL INFORMATION

|                              |                      |
|------------------------------|----------------------|
| Operating Temperature Range  | -40 °C to +85 °C     |
| Storage Temperature Range    | -40 °C to +90 °C     |
| Reflow Soldering Temperature | 260 °C for 5 sec max |

## APPLICATION INFORMATION (ALL RATINGS AT 25 °C AMBIENT)

| Part No.     | Emitted Color | Peak      | $\Delta\lambda$ | Absolute Maximum Ratings |         |                      |     |    | E/O Characteristics |     |     |                       |     |                 |
|--------------|---------------|-----------|-----------------|--------------------------|---------|----------------------|-----|----|---------------------|-----|-----|-----------------------|-----|-----------------|
|              |               | $\lambda$ |                 | Pd                       | If (mA) |                      | Ir  | Vr | Vf (V)<br>@ If=20mA |     |     | Iv (mcd)<br>@ If=20mA |     | $2\Theta_{1/2}$ |
|              |               | (nm)      | (nm)            |                          | dc      | 1/10 duty<br>@ 1 kHz |     |    | Min                 | Typ | Max | Min                   | Typ | (Deg)           |
| IVRVGC0678   | Red           | 640       | 45              | 70                       | 25      | 90                   | 100 | 5  | –                   | 2.0 | 2.8 | 6                     | 10  | 120             |
|              | Green         | 570       | 30              | 70                       | 25      | 90                   | 100 | 5  | –                   | 2.1 | 2.8 | 15                    | 25  | 120             |
| ISRUGC0678   | Red           | 660       | 20              | 100                      | 30      | 200                  | 100 | 5  | –                   | 1.7 | 2.4 | 19                    | 32  | 120             |
|              | Green         | 570       | 30              | 70                       | 30      | 90                   | 100 | 5  | –                   | 2.1 | 2.8 | 16                    | 28  | 120             |
| ISRVGC0678   | Red           | 660       | 20              | 100                      | 30      | 200                  | 100 | 5  | –                   | 1.7 | 2.4 | 19                    | 32  | 120             |
|              | Green         | 570       | 30              | 70                       | 25      | 90                   | 100 | 5  | –                   | 2.1 | 2.8 | 15                    | 25  | 120             |
| ISRUGUBC0678 | Red           | 660       | 20              | 100                      | 30      | 200                  | 100 | 5  | –                   | 1.7 | 2.4 | 17                    | 28  | 120             |
|              | Green         | 570       | 30              | 70                       | 30      | 90                   | 100 | 5  | –                   | 2.1 | 2.8 | 17                    | 28  | 120             |
|              | Blue          | 430       | 65              | 100                      | 30      | 100                  | 100 | 5  | –                   | 4.5 | 5.5 | 32                    | 46  | 120             |
| ISRVGUBC0678 | Red           | 660       | 20              | 100                      | 30      | 200                  | 100 | 5  | –                   | 1.7 | 2.4 | 17                    | 28  | 120             |
|              | Green         | 570       | 30              | 70                       | 25      | 90                   | 100 | 5  | –                   | 2.1 | 2.8 | 16                    | 26  | 120             |
|              | Blue          | 430       | 65              | 100                      | 30      | 100                  | 100 | 4  | 3.5                 | 4.5 | 5.5 | 32                    | 46  | 120             |

Specifications subject to change without notice. Dimensions are in mm±0.3 unless stated otherwise. \*reversed polarity

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