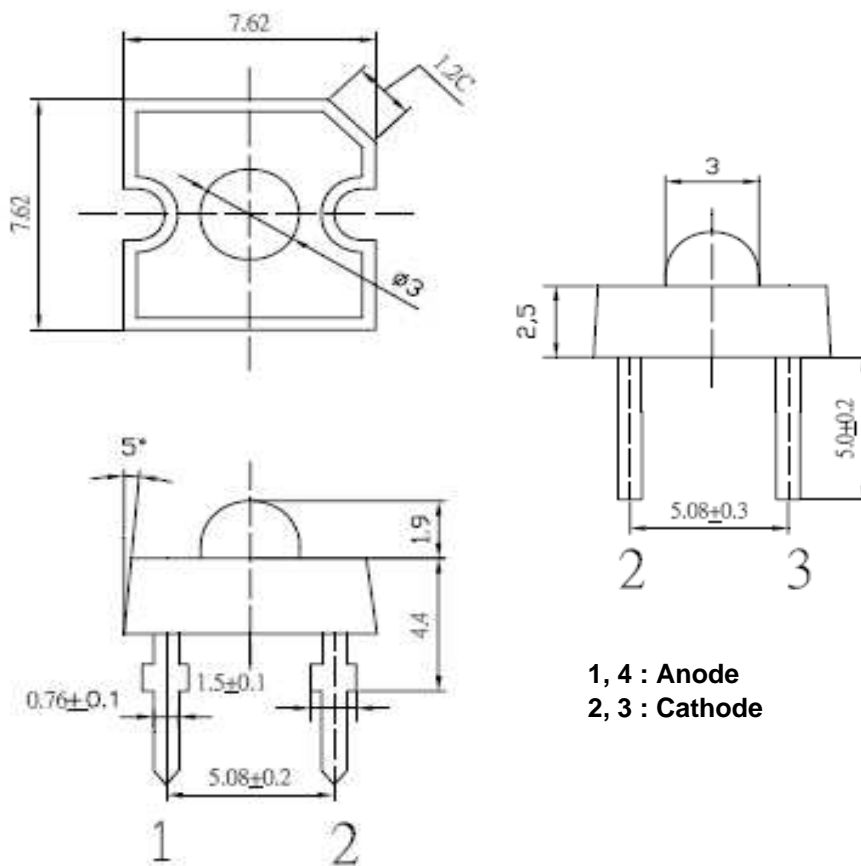




Applications

- Electronic Signs and Signals
- Small Area Illuminations
 - Back Lighting
 - Other Lighting

Technical Drawing



1, 4 : Anode
 2, 3 : Cathode

Notes :

All dimensions in mm tolerance is ± 0.1 mm unless otherwise noted.

| | |
|----------------------------------|-----------------|
| Super Flux Warm White | |
| Part No.: | M13G1010 |
| Customer: | |

| | | | | | | | |
|-------|------|------|-------|--------|------|-------|------------|
| DRW: | Dong | CHKD | Chang | MATL: | Chui | DATE | 18.11.2010 |
| APPD: | Ping | | | FINISH | Hui | Sheet | 1 from 6 |



Absolute Maximum Ratings

| Item | Symbol | --- | Unit |
|------------------------|-------------------|------------|------|
| Power Dissipation | P _D | 180 | mW |
| DC Forward Current | I _F | 50 | mA |
| Pulsed Forward Current | I _{FP} * | 100 | mA |
| Reverse Voltage | V _R | 5 | V |
| Operating Temperature | T _{OP} | -30 to 85 | °C |
| Storage Temperature | T _{ST} | -40 to 100 | °C |

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

| Ermitting Color | Warm White | | |
|----------------------|----------------|-----------------|----------------|
| Material | --- | | |
| Forward Voltage | typ. | 3.1 | V _F |
| | max. | 3.6 | V _F |
| Wavelength typ. | λ _D | x = 0.41 ~ 0.49 | nm |
| | λ _P | y = 0.37 ~ 0.45 | nm |
| | Δλ | --- | nm |
| Color Temperature | min. | --- | K |
| | max. | --- | K |
| Luminous Intensity * | min. | 12000 | mcd |
| | typ. | 14400 | mcd |
| Reverse Current | max. | --- | μA |
| Viewing Angle | 2θ1/2 | 15 | |

* Per NIST standards

**Super Flux
Warm White**

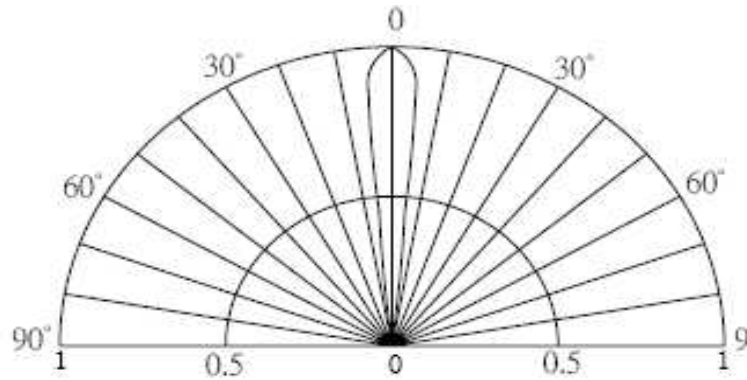
Part No.: **M13G1010**

Customer:

| | | | | | | | |
|-------|------|------|-------|--------|------|-------|------------|
| DRW: | Dong | CHKD | Chang | MATL: | Chui | DATE | 22.10.2010 |
| APPD: | Ping | | | FINISH | Hui | Sheet | 2 from 6 |



Directive Characteristics



**Super Flux
Warm White**

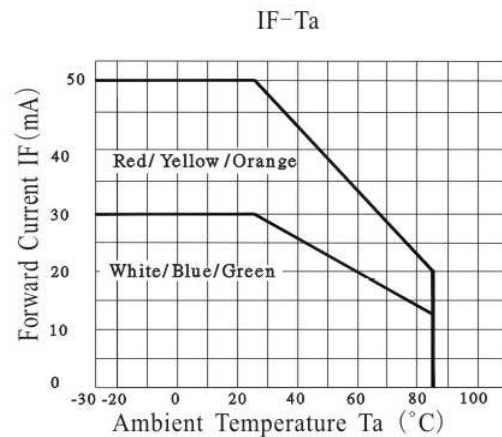
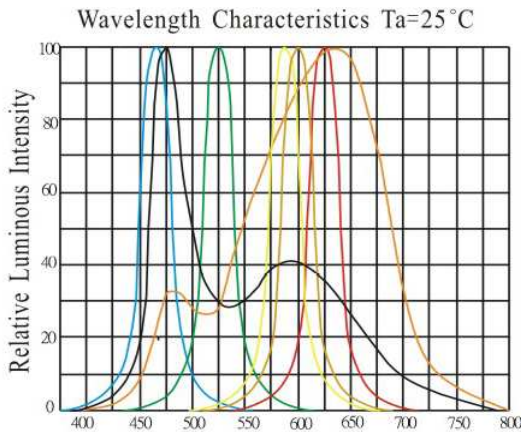
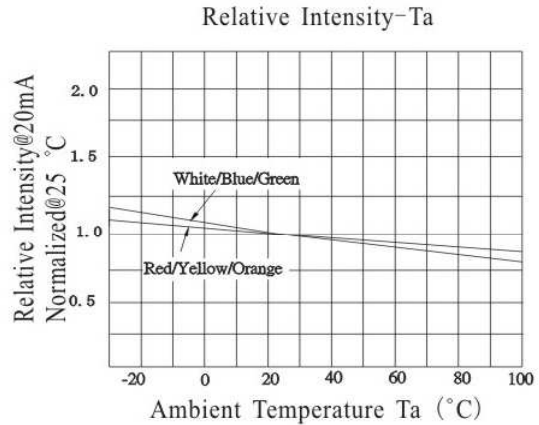
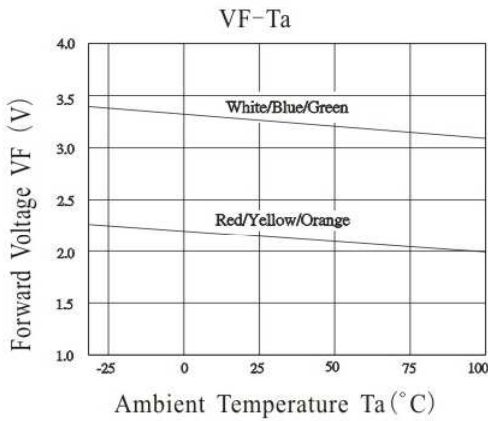
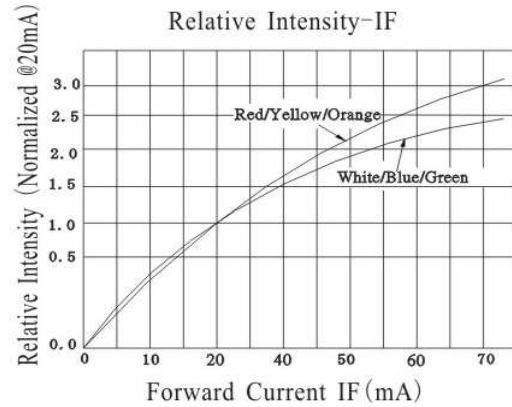
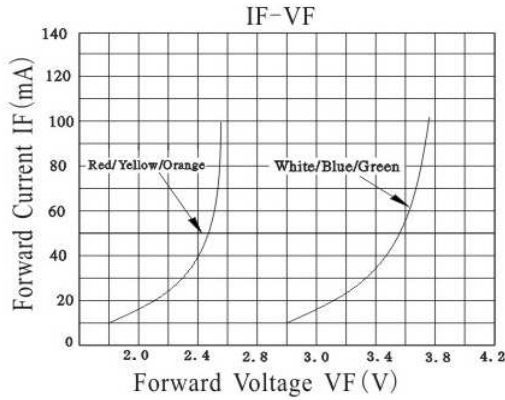
Part No.: **M13G1010**

Customer:

| | | | | | | | |
|-------|------|------|-------|--------|------|-------|------------|
| DRW: | Dong | CHKD | Chang | MATL: | Chui | DATE | 18.11.2010 |
| APPD: | Ping | | | FINISH | Hui | Sheet | 3 from 6 |



Typical Characteristics



| | |
|----------------------------------|-----------------|
| Super Flux Warm White | |
| Part No.: | M13G1010 |
| Customer: | |

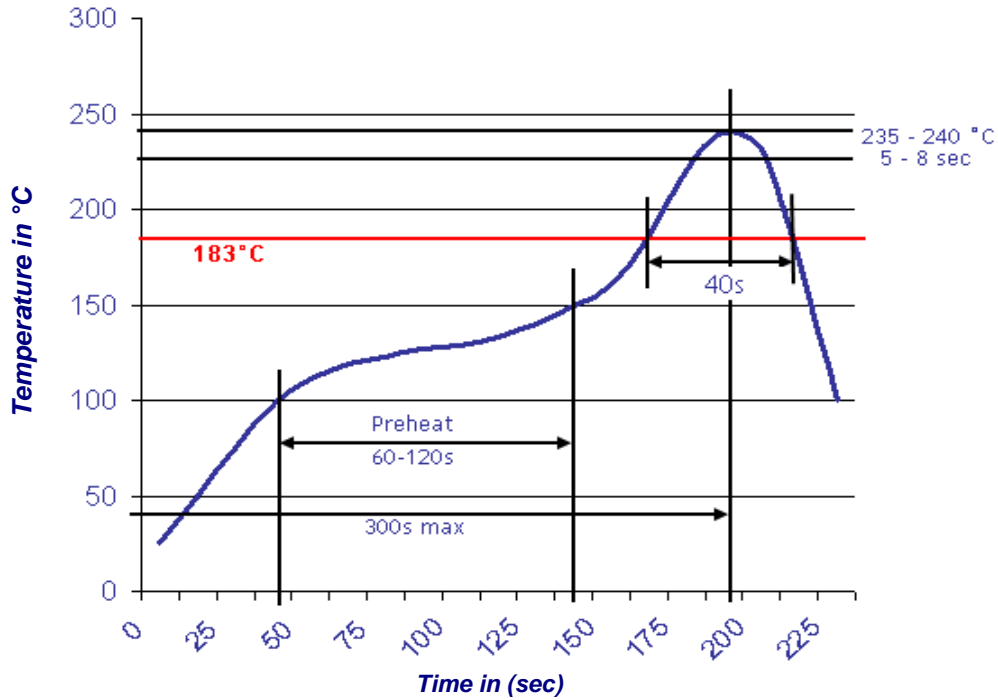
| | | | | | | | |
|-------|------|------|-------|--------|------|-------|------------|
| DRW: | Dong | CHKD | Chang | MATL: | Chui | DATE | 18.11.2010 |
| APPD: | Ping | | | FINISH | Hui | Sheet | 4 from 6 |



Solder Condition

Lead Free Solder

Classification Reflow Profile (JEDEC J-STD-020C)

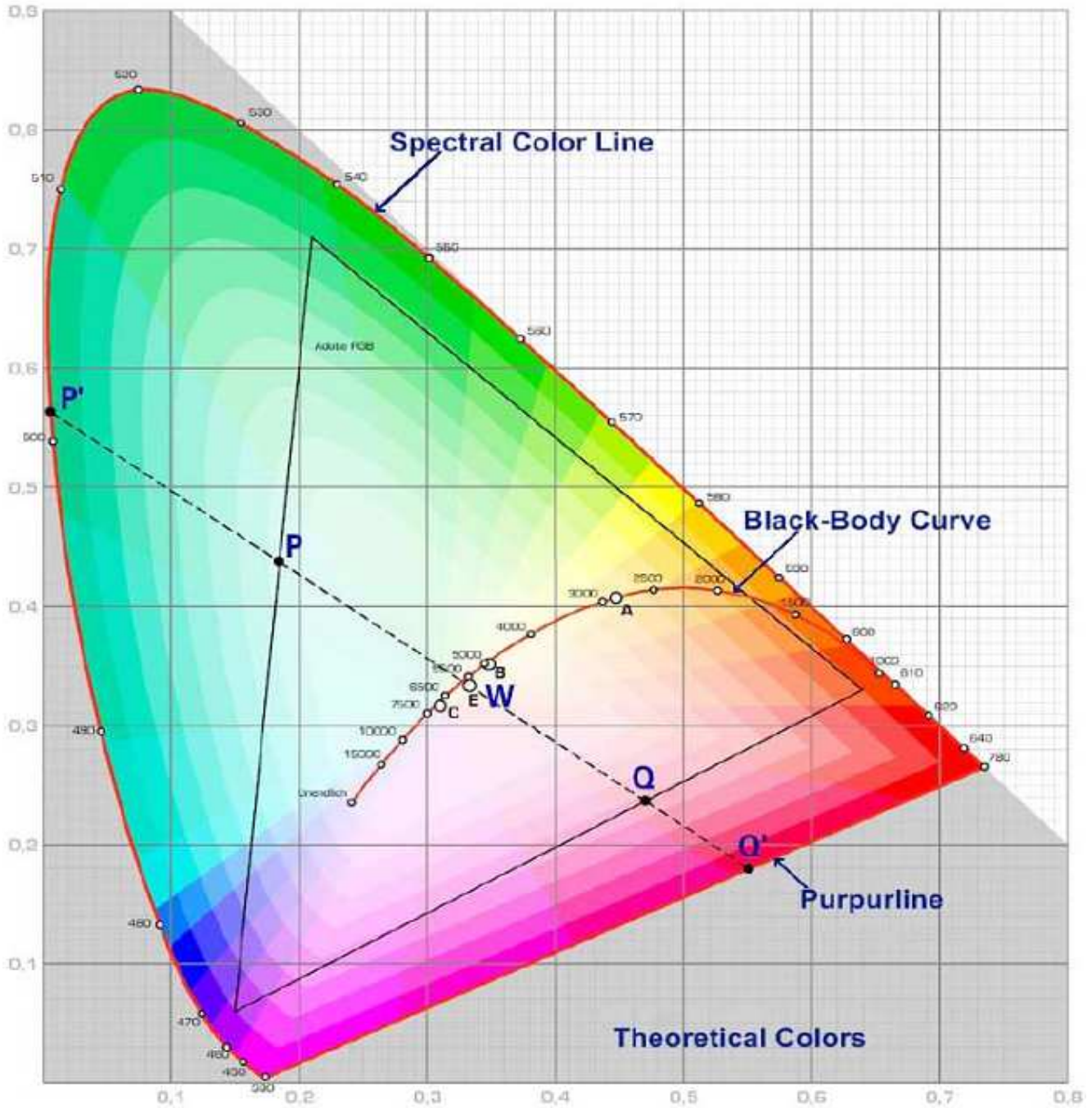


| | |
|----------------------------------|-----------------|
| Super Flux Warm White | |
| Part No.: | M13G1010 |
| Customer: | |

| | | | | | | | |
|-------|------|------|-------|--------|------|-------|------------|
| DRW: | Dong | CHKD | Chang | MATL: | Chui | DATE | 18.11.2010 |
| APPD: | Ping | | | FINISH | Hui | Sheet | 5 from 6 |



Color table curve



| | |
|----------------------------------|-----------------|
| Super Flux Warm White | |
| Part No.: | M13G1010 |
| Customer: | |

| | | | | | | | |
|-------|------|------|-------|--------|------|-------|------------|
| DRW: | Dong | CHKD | Chang | MATL: | Chui | DATE | 18.11.2010 |
| APPD: | Ping | | | FINISH | Hui | Sheet | 6 from 6 |