

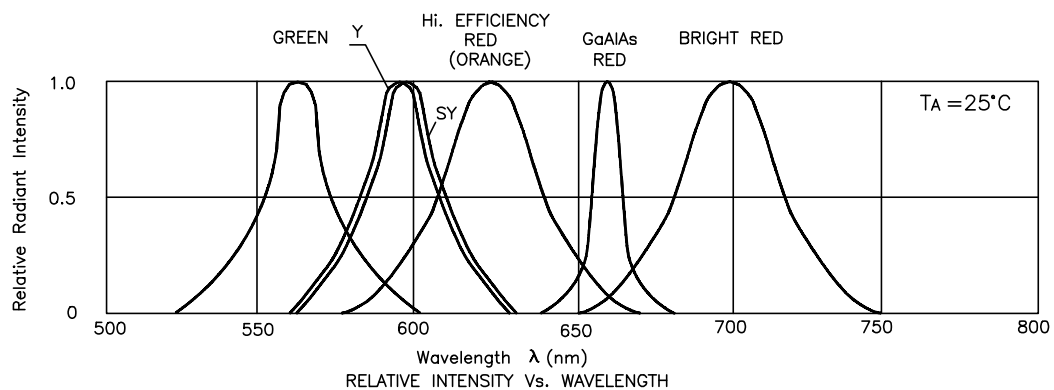
# Electrical / Optical Characteristics at T<sub>A</sub>=25°C

| Symbol                | Parameter               | Device                                                                                                       | Typ.                                    | Max.                                   | Units | Test Conditions |
|-----------------------|-------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------|-------|-----------------|
| $\lambda_{peak}$      | Peak Wavelength         | Bright Red<br>High Efficiency Red<br>Yellow<br>Super Bright Red<br>Super Bright Green<br>Super Bright Yellow | 700<br>625<br>590<br>660<br>565<br>595  |                                        | nm    | IF=20mA         |
| $\Delta\lambda_{1/2}$ | Spectral Line Halfwidth | Bright Red<br>High Efficiency Red<br>Yellow<br>Super Bright Red<br>Super Bright Green<br>Super Bright Yellow | 45<br>45<br>35<br>20<br>30<br>20        |                                        | nm    | IF=20mA         |
| C                     | Capacitance             | Bright Red<br>High Efficiency Red<br>Yellow<br>Super Bright Red<br>Super Bright Green<br>Super Bright Yellow | 40<br>12<br>10<br>95<br>45<br>33        |                                        | pF    | VF=0V;f=1MHz    |
| V <sub>F</sub>        | Forward Voltage         | Bright Red<br>High Efficiency Red<br>Yellow<br>Super Bright Red<br>Super Bright Green<br>Super Bright Yellow | 2.0<br>2.0<br>2.1<br>1.85<br>2.2<br>2.0 | 2.5<br>2.5<br>2.5<br>2.5<br>2.5<br>2.4 | V     | IF=20mA         |
| I <sub>R</sub>        | Reverse Current         | All                                                                                                          | 10                                      |                                        | uA    | VR = 5V         |

# Absolute Maximum Ratings at T<sub>A</sub>=25°C

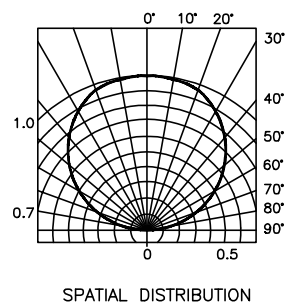
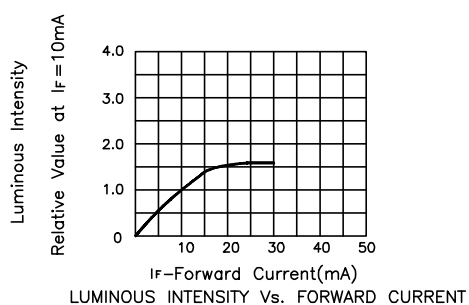
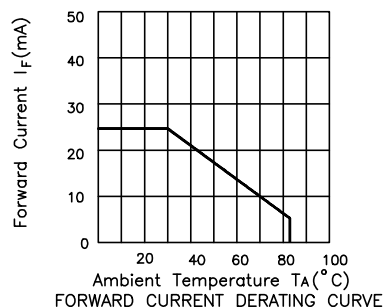
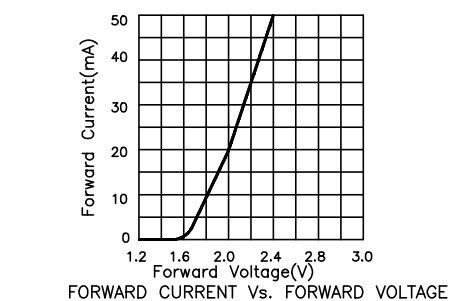
| Parameter                     | Bright Red        | High Efficiency Red | Yellow | Super Bright Red | Super Bright Green | Super Bright Yellow | Units |
|-------------------------------|-------------------|---------------------|--------|------------------|--------------------|---------------------|-------|
| Power dissipation             | 105               | 105                 | 105    | 100              | 105                | 125                 | mW    |
| DC Forward Current            | 25                | 30                  | 30     | 30               | 25                 | 30                  | mA    |
| Peak Forward Current [1]      | 150               | 150                 | 150    | 150              | 150                | 150                 | mA    |
| Reverse Voltage               | 5                 | 5                   | 5      | 5                | 5                  | 5                   | V     |
| Operating/Storage Temperature | -40° C To +85 ° C |                     |        |                  |                    |                     |       |

Note:  
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

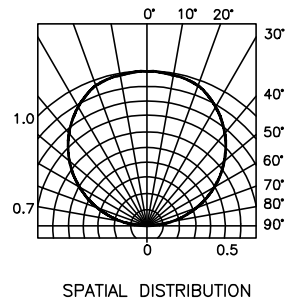
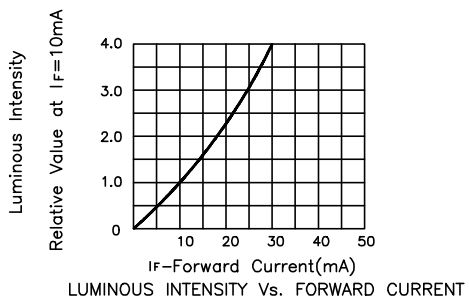
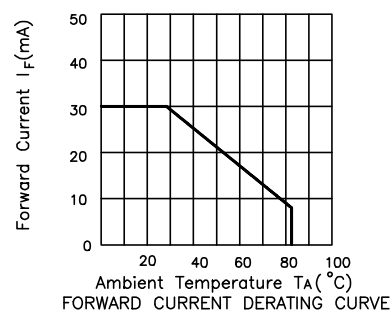
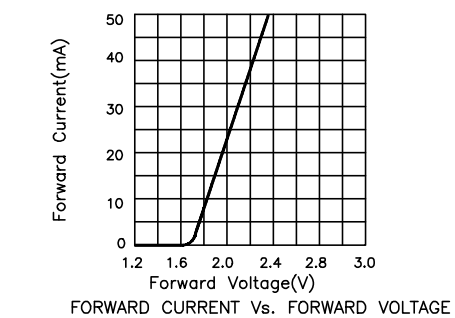


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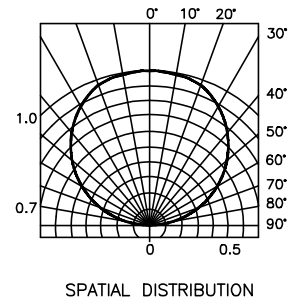
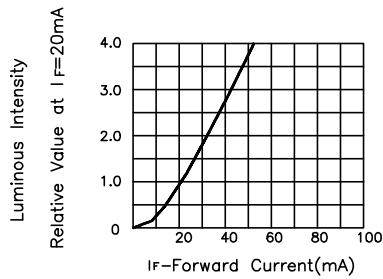
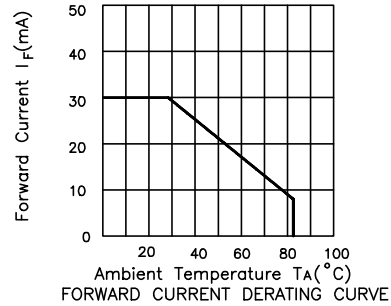
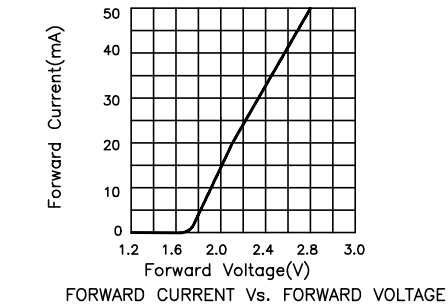
## Bright Red KPT-1608HD, KPT-1608HC, KPT-1608HT



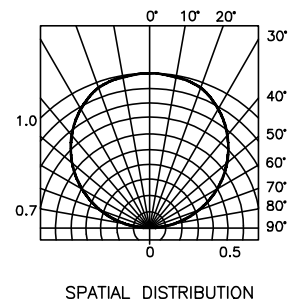
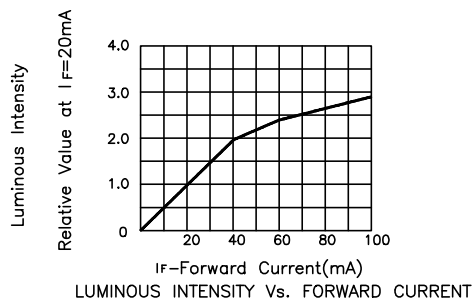
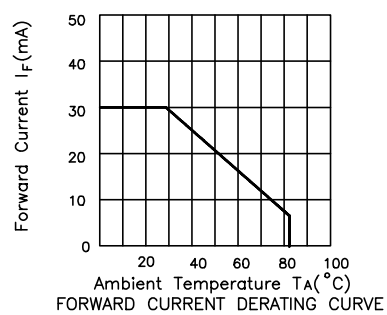
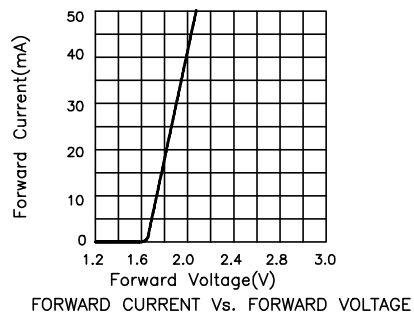
## High Efficiency Red KPT-1608ID, KPT-1608EC, KPT-1608IT



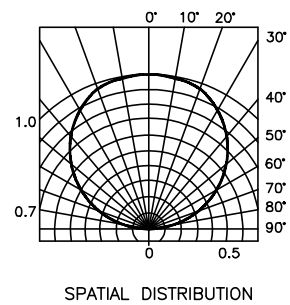
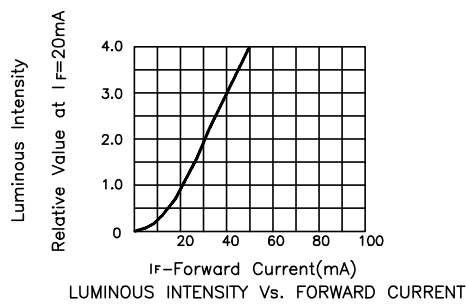
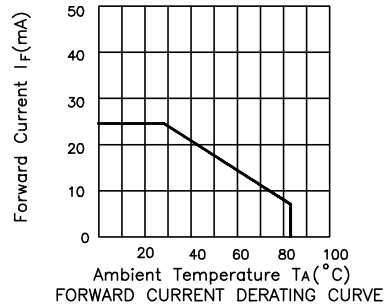
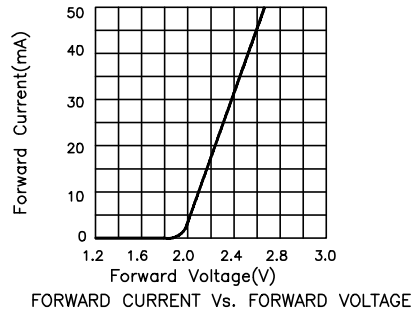
## Yellow KPT-1608YD, KPT-1608YC, KPT-1608YT



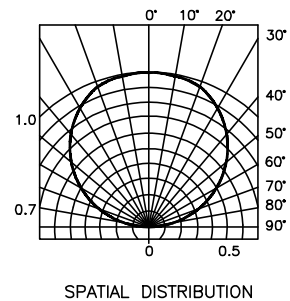
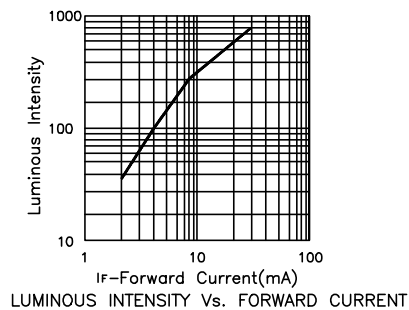
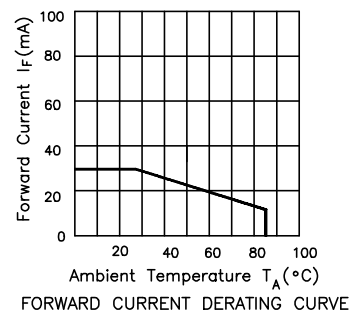
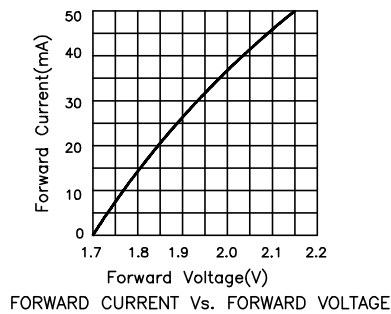
## Super Bright Red KPT-1608SRD, KPT-1608SRC, KPT-1608SRT



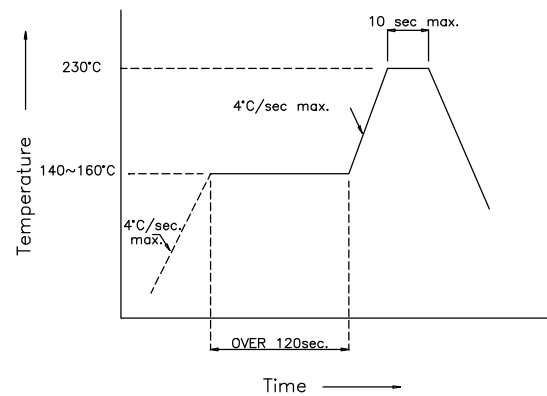
### Super Bright Green KPT-1608SGD, KPT-1608SGC, KPT-1608SGT



### Super Bright Yellow KPT-1608SYD, KPT-1608SYC, KPT-1608SYT



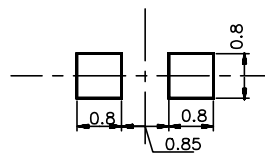
## KPT-1608 Series SMT Reflow Soldering Instructions



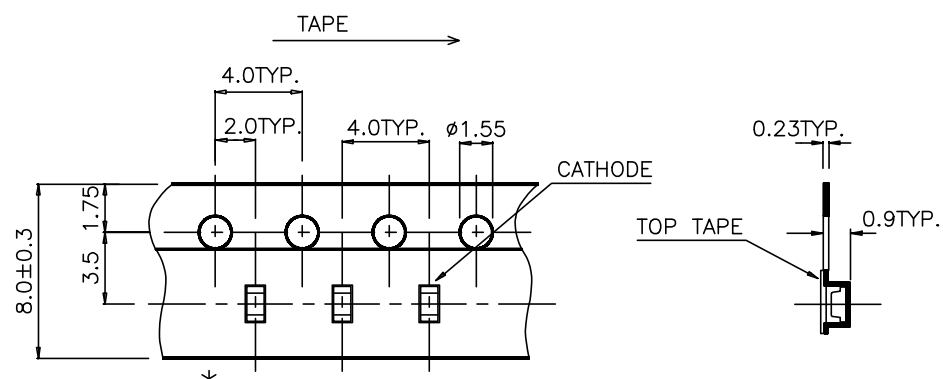
## KPT-1608 Series Recommended Soldering Pattern

FOR REFLOW SOLDERING

(Units : mm)



## KPT-1608 Series Tape Specifications



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