

Features

- Small double-end package
- Viewing Angle = ±65°
- Compatible with infrared and vapor phase reflow solder process
- High reliability
- Ultra bright Pink
- RoHS compliance

Applications

- Optical indicator.
- Switch and Symbol Display.

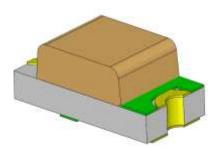
Description

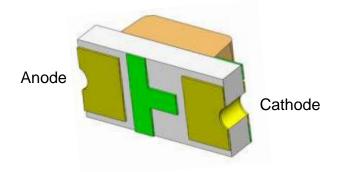
The PP160806-CTC4 is a Pink LED housed in a miniature SMD package.

Static electricity and surge damage the LEDs.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

Package Outline





Schematic



Absolute Maximum Rating at 25°C

Symbol	Parameters	Ratings	Units	Notes
lF	Continuous Forward Current	20	mA	
I _{FP}	Peak Forward Current	60	mA	1
V _R	Reverse Voltage	5	V	
Topr	Operating Temperature	-40 ~ +85	°C	
T _{stg}	Storage Temperature	-40 ~ +100	°C	
T _{sol}	Soldering Temperature	260	°C	2
PD	Power Dissipation at(or below) 25°C Free Air Temperature	95	mW	

Electro-Optical Characteristics TA = 25°C (unless otherwise specified)

Optical Characteristics

Symbol	Parameters	Test Conditions	Min	Тур	Max	Units	Notes
lv	Luminous Intensity	I _F =5mA	100	-	400	mcd	3
CIE	Chromaticity Coordinates (X)	I Em A	-	0.34	-		
CIE	Chromaticity Coordinates (Y)	I _F =5mA	-	0.19	-	-	
θ1/2	Angle of Half Intensity	I _F =5mA	-	±65	-	deg	

Electrical Characteristics

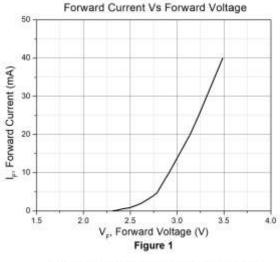
Symbol	Parameters	Test Conditions	Min	Тур	Max	Units	Notes
VF	Forward Voltage	I _F =5mA	2.6	-	3.1	V	4
I _R	Reverse Current	V _R =5V	-	-	1	μΑ	

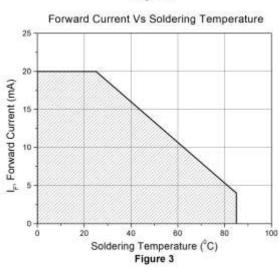
Notes:

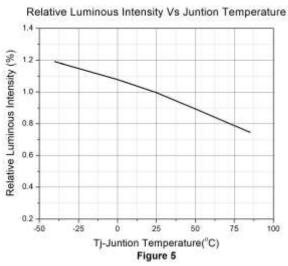
- 1. I_{FP} Conditions--Pulse Width≦ 100µs and Duty≦ 10%.
- 2. Soldering time ≤ 10 seconds.
- 3. Tolerance of: Luminous Intensity $\pm 10\%$
- 4. Tolerance of Forward Voltage ±0.1V.

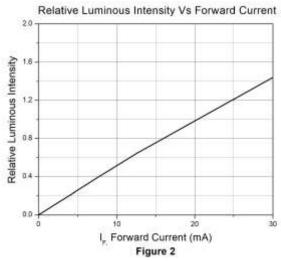


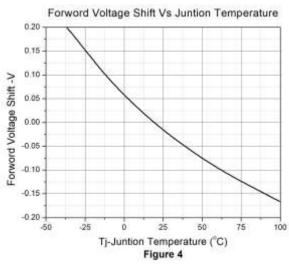
Typical Characteristic Curves

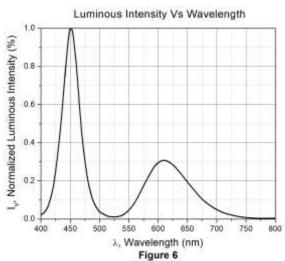






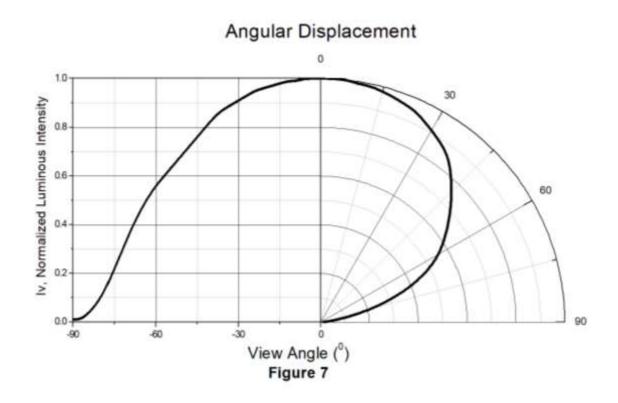






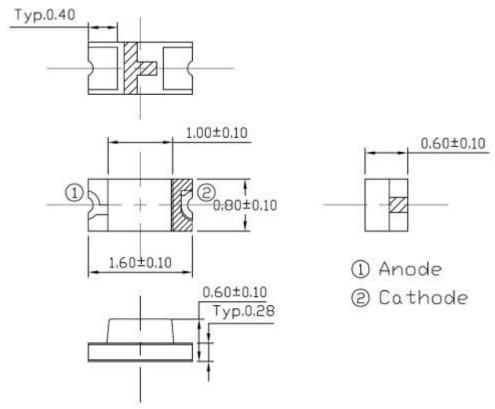


Typical Characteristic Curves



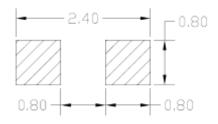


Package Dimension All dimensions are in mm, unless otherwise stated



Note: Tolerance unless mentioned is ±0.1mm.

Recommended Soldering Mask All dimensions are in mm, unless otherwise stated



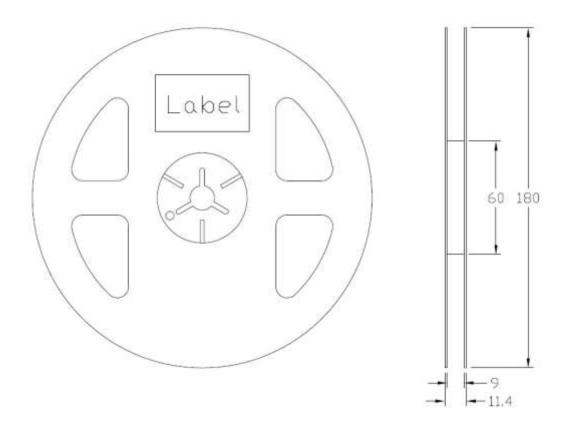
Note: Tolerance unless mentioned is ±0.1mm.

Ordering Information

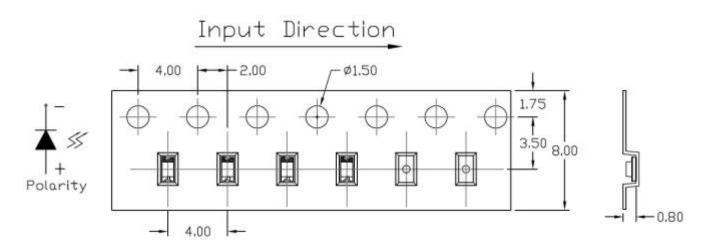
Part Number	Description	Quantity
PP160806-CTC4	Tape & Reel	4000 pcs



Reel Dimension All dimensions are in mm, unless otherwise stated



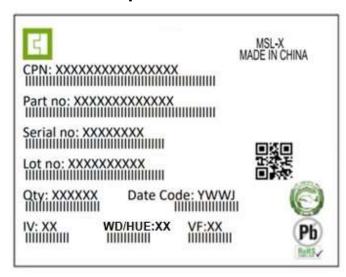
Tape Dimension All dimensions are in mm, unless otherwise stated



Note: Tolerance unless mentioned is ±0.1mm.



Label Form Specification



CPN: Customer Part Number

Part no: CTM Production Number

Serial no: Production Number

Lot no: Lot number

Q'ty: Packing Quantity

Date Code: Manufacture Date

IV : Bin Code of Luminous Intensity

WD: Bin Code of Dominant Wavelength

HUE: Bin Code of Chromaticity Coordinates

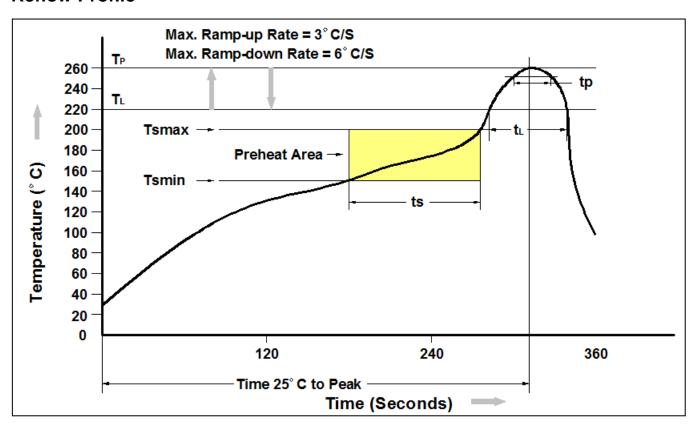
VF : Bin Code of Forward Voltage MADE IN CHINA: Production Place

Storage Condition

- 1. Do not open moisture proof bag before the products are ready to use.
- 2. The moisture barrier bag should be stored at 30°C and 90%R.H. max. before opening. Shelf life of non-opened bag is 12 months after the bag sealing date.
- 3. After opening the moisture barrier bag floor life is 1 year at 30°C/60%RH. max. Unused LEDs should be resealed into moisture barrier bag. (Refer to J-STD-020 Standard)
- 4. If the moisture absorbent material has faded away or the LEDs have exceeded the storage time, baking treatment should be performed using the J-STD-033 Standard conditions.



Reflow Profile



Profile Feature	Pb-Free Assembly Profile
Temperature Min. (Tsmin)	150°C
Temperature Max. (Tsmax)	200°C
Time (ts) from (Tsmin to Tsmax)	60-120 seconds
Ramp-up Rate (t∟ to t⊳)	3°C/second max.
Liquidous Temperature (T _L)	217°C
Time (t _L) Maintained Above (T _L)	60 – 150 seconds
Peak Body Package Temperature	260°C +0°C / -5°C
Time (t _P) within 5°C of 260°C	30 seconds
Ramp-down Rate (T _P to T _L)	6°C/second max
Time 25°C to Peak Temperature	8 minutes max.



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- A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.