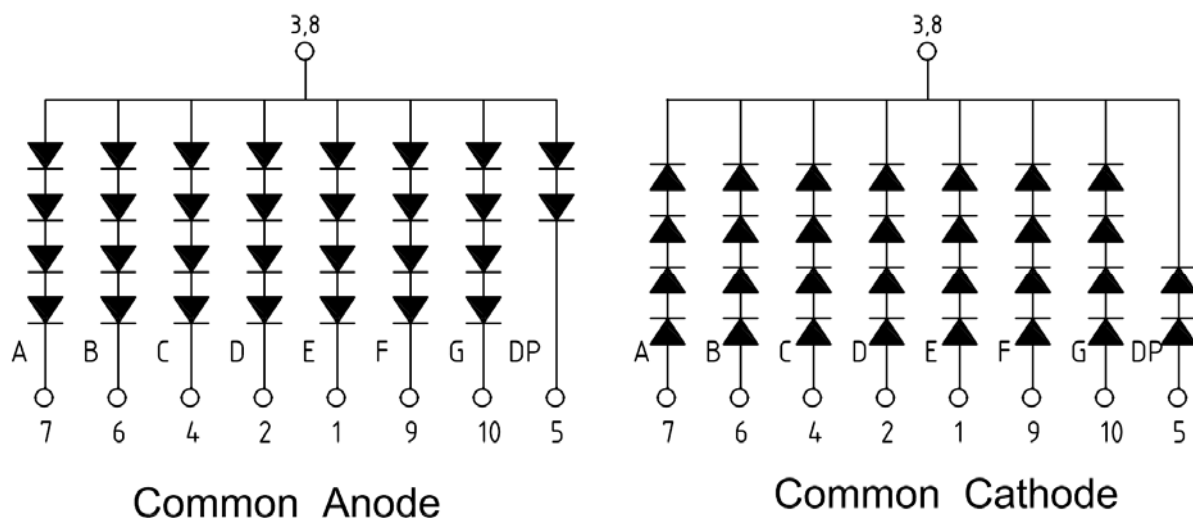


Circuit Diagram



Absolute Maximum Ratings at $T_A = 25^\circ\text{C}$

Parameter	Symbol	Red/Yellow/ Orange/ Green/ Deep Red	Units
Power Dissipation per segment / Dot Point (DP)	P_D	208/104	mW
Continuous Forward Current per segment	I_F	20	mA
Peak Forward Current per segment (1/10 Duty Cycle, 0.1m sec pulse width)		100	mA
Derating Linearly from 25°C per segment		0.21	mA/ $^\circ\text{C}$
Reverse Voltage per segment / DP	V_R	20/10	V
Operating Temperature	T_O	-40 to 85	$^\circ\text{C}$
Storage Temperature	T_S	-40 to 85	$^\circ\text{C}$
Wave solder Condition 1.6mm below body		260 $^\circ\text{C}$ peak for 3 secs max	

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Electrical / Optical Characteristic at T_A = 25°C

Red

Parameter	Symbol	Min	Typ	Max	Units	Test Conditions
Average Luminous Intensity (Digit Average)	I _V	—	105	—	mcd	I _F = 10mA
Peak Wavelength	λ _p	—	634	—	nm	I _F = 20mA
Dominant Wavelength	λ _d	—	625	—	nm	I _F = 20mA
Forward Voltage per segment / DP	V _F	—	8.0/4.0	10.4/5.2	V	I _F = 20mA
Reverse Current per segment / DP	I _R	—	—	100	μA	V _R = 20V/10V(DP)
Luminous Intensity Matching Ratio (Segment to Segment)	I _{V-M}		2:1			I _F = 10mA

Green

Parameter	Symbol	Min	Typ	Max	Units	Test Conditions
Average Luminous Intensity (Digit Average)	I _V	—	38	—	mcd	I _F = 10mA
Peak Wavelength	λ _p	—	570	—	nm	I _F = 20mA
Dominant Wavelength	λ _d	—	571	—	nm	I _F = 20mA
Forward Voltage per segment / DP	V _F	—	8.0/4.0	10.4/5.2	V	I _F = 20mA
Reverse Current per segment / DP	I _R	—	—	100	μA	V _R = 20V/10V(DP)
Luminous Intensity Matching Ratio (Segment to Segment)	I _{V-M}		2:1			I _F = 10mA

Yellow

Parameter	Symbol	Min	Typ	Max	Units	Test Conditions
Average Luminous Intensity (Digit Average)	I _V	—	88	—	mcd	I _F = 10mA
Peak Wavelength	λ _p	—	592	—	nm	I _F = 20mA
Dominant Wavelength	λ _d	—	587	—	nm	I _F = 20mA
Forward Voltage per segment / DP	V _F	—	8.0/4.0	10.4/5.2	V	I _F = 20mA
Reverse Current per segment / DP	I _R	—	—	100	μA	V _R = 20V/10V(DP)
Luminous Intensity Matching Ratio (Segment to Segment)	I _{V-M}		2:1			I _F = 10mA

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Orange

Parameter	Symbol	Min	Typ	Max	Units	Test Conditions
Average Luminous Intensity (Digit Average)	I_V	—	103	—	mcd	$I_F = 10\text{mA}$
Peak Wavelength	λ_P	—	610	—	nm	$I_F = 20\text{mA}$
Dominant Wavelength	λ_D	—	605	—	nm	$I_F = 20\text{mA}$
Forward Voltage per segment / DP	V_F	—	8.0/4.0	10.4/5.2	V	$I_F = 20\text{mA}$
Reverse Current per segment / DP	I_R	—	—	100	μA	$V_R = 20\text{V}/10\text{V}(\text{DP})$
Luminous Intensity Matching Ratio (Segment to Segment)	I_{V-M}		2:1			$I_F = 10\text{mA}$

Deep Red

Parameter	Symbol	Min	Typ	Max	Units	Test Conditions
Average Luminous Intensity (Digit Average)	I_V	—	95	—	mcd	$I_F = 10\text{mA}$
Peak Wavelength	λ_P	—	644	—	nm	$I_F = 20\text{mA}$
Dominant Wavelength	λ_D	—	635	—	nm	$I_F = 20\text{mA}$
Forward Voltage per segment / DP	V_F	—	8.0/4.0	10.4/5.2	V	$I_F = 20\text{mA}$
Reverse Current per segment / DP	I_R	—	—	100	μA	$V_R = 20\text{V}/10\text{V}(\text{DP})$
Luminous Intensity Matching Ratio (Segment to Segment)	I_{V-M}		2:1			$I_F = 10\text{mA}$

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Red

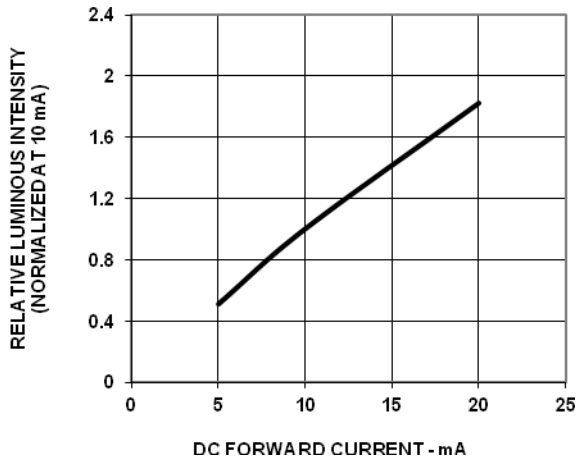


Fig 1: Relative Luminous Intensity Vs Forward Current

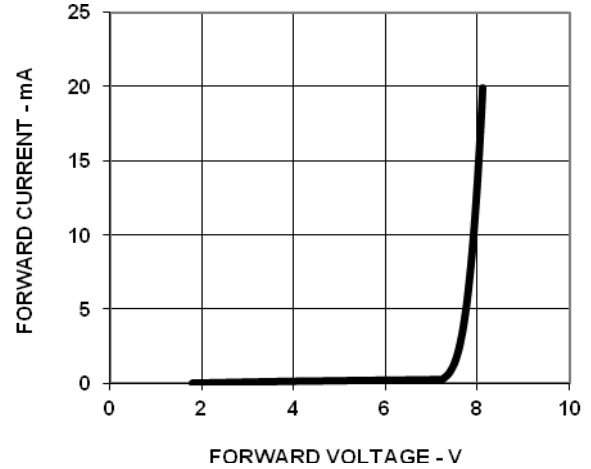


Fig 2: Forward Voltage Vs Current (Segment)

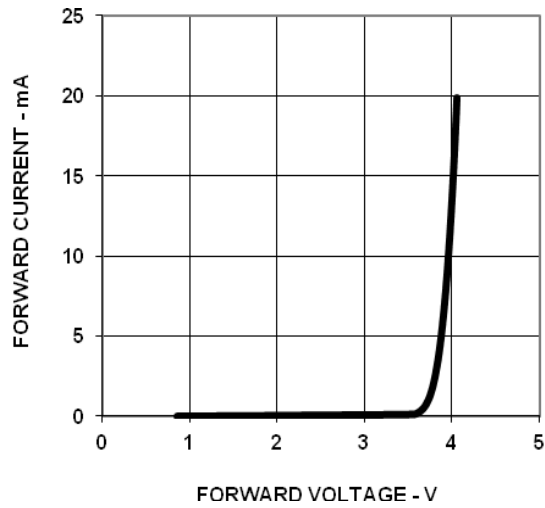


Fig 3: Forward Voltage Vs Current (DP)

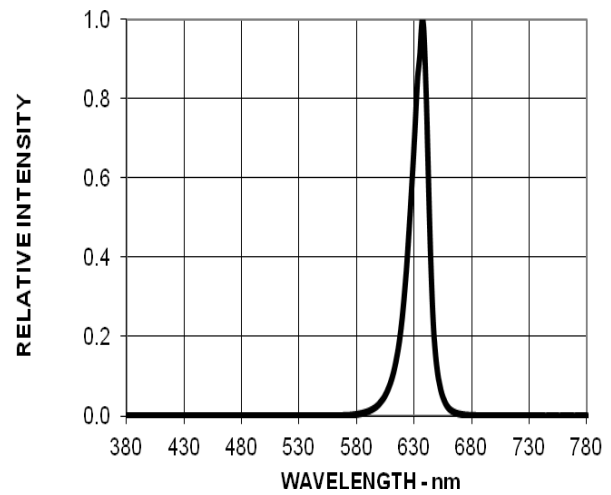


Fig 4: Relative Luminous Intensity Vs Wavelength

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Green

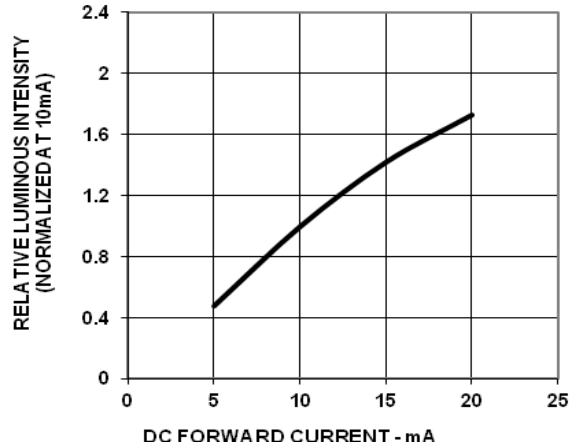


Fig 1: Relative Luminous Intensity Vs Forward Current

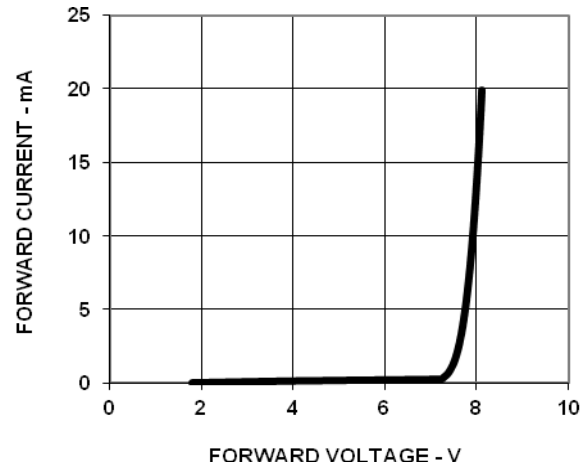


Fig 2: Forward Voltage Vs Current (Segment)

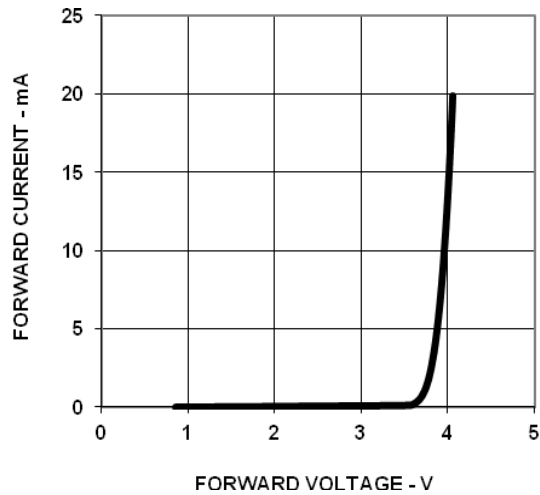


Fig 3: Forward Voltage Vs Current (DP)

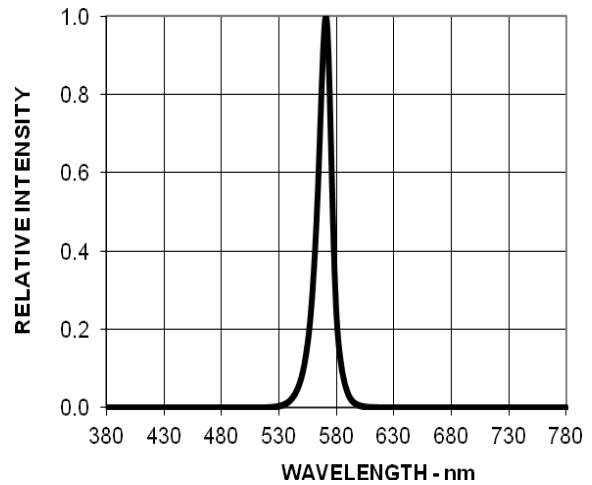


Fig 4: Relative Luminous Intensity Vs Wavelength

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Yellow

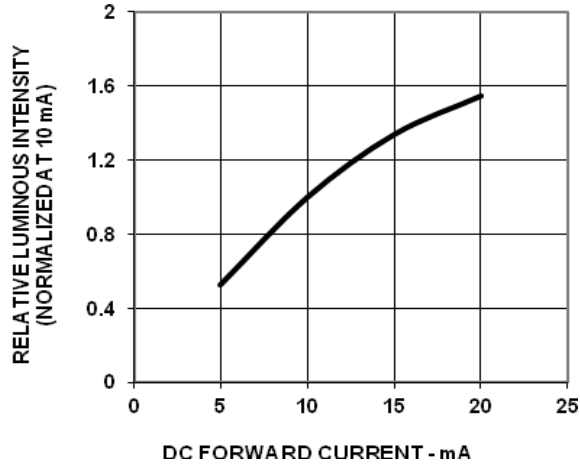


Fig 1: Relative Luminous Intensity Vs Forward Current

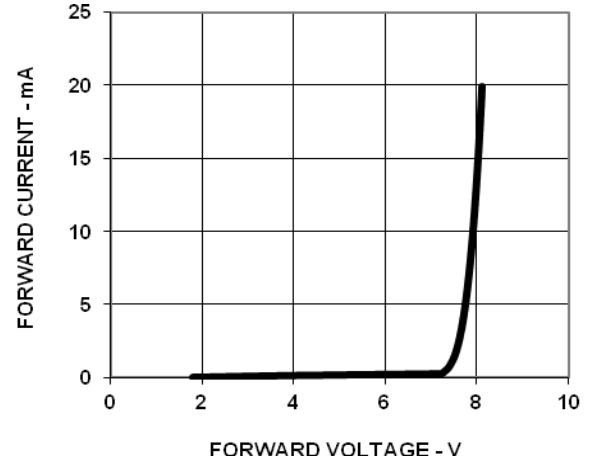


Fig 2: Forward Voltage Vs Current(Segment)

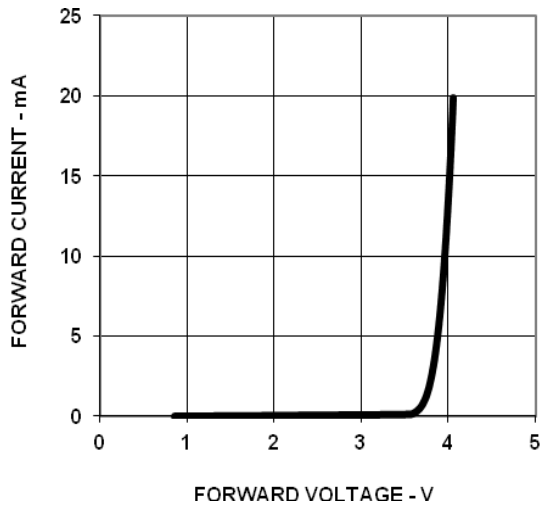


Fig 3: Forward Voltage Vs Current (DP)

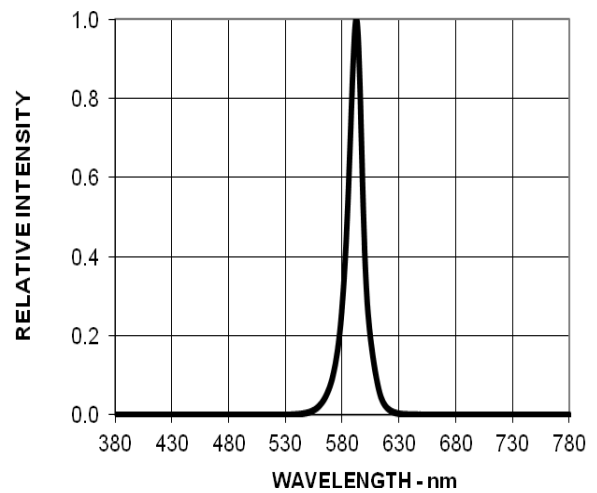


Fig 4: Relative Luminous Intensity Vs Wavelength

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Orange

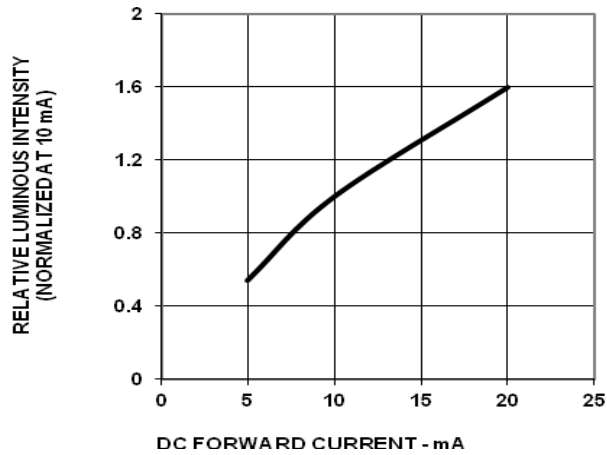


Fig 1: Relative Luminous Intensity Vs Forward Current

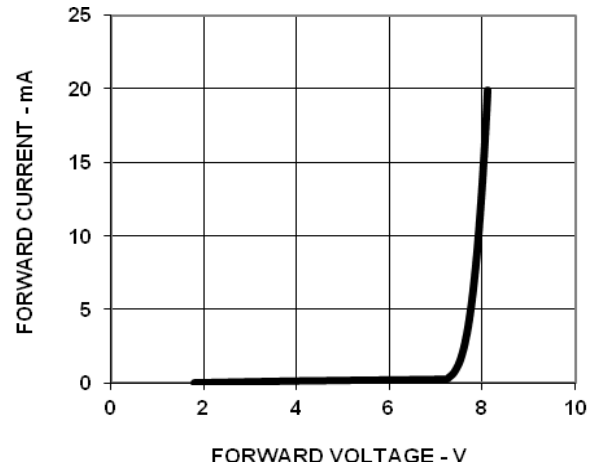


Fig 2: Forward Voltage Vs Current (Segment)

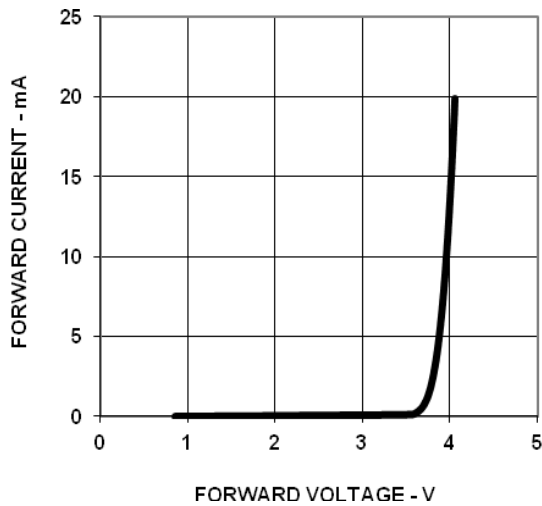


Fig 3: Forward Voltage Vs Current (DP)

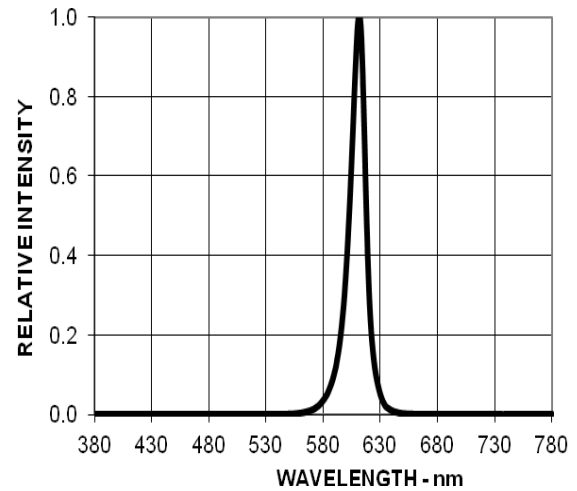


Fig 4: Relative Luminous Intensity Vs Wavelength

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Deep Red

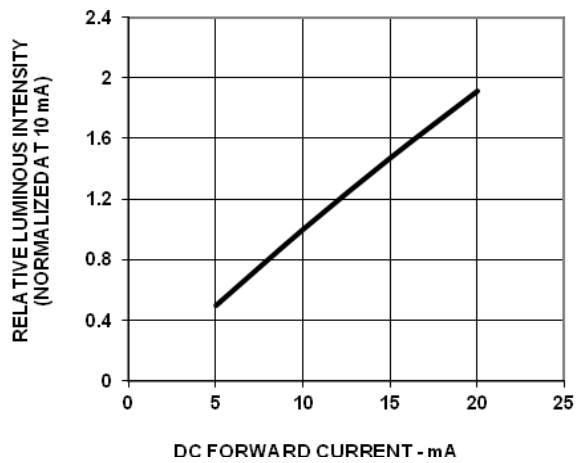


Fig 1: Relative Luminous Intensity Vs Forward Current

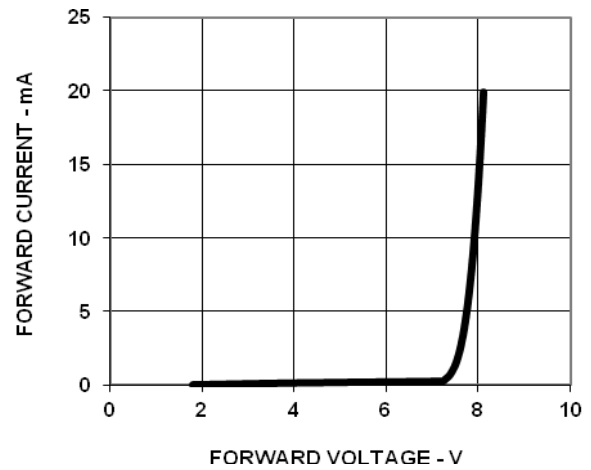


Fig 2: Forward Voltage Vs Current (Segment)

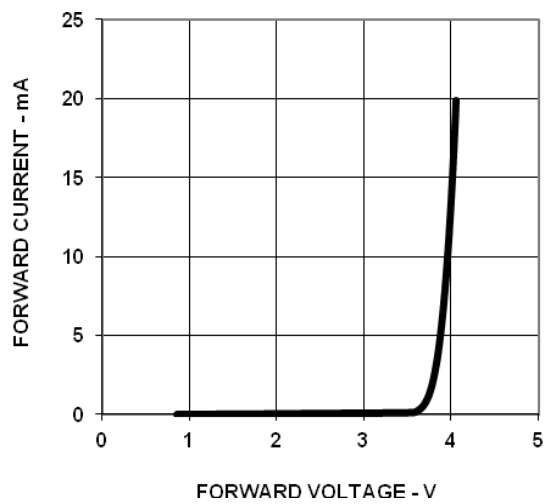


Fig 3: Forward Voltage Vs Current (DP)

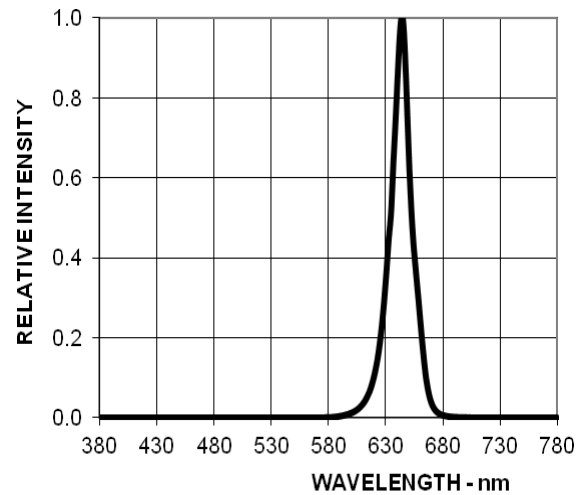


Fig 4: Relative Luminous Intensity Vs Wavelength

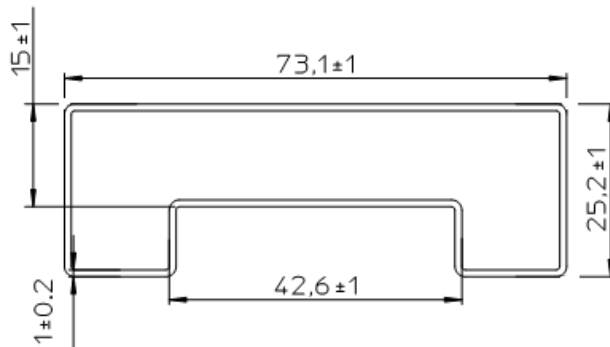
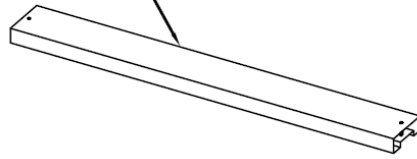
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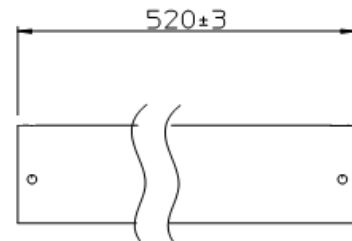
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Packing Tube Specifications:

10 PCS PRODUCTS PER IC TUBE



Tube Front View



Tube Top View

Reference

For further information on soldering LEDs, please refer to Avago Technologies Application Note 1027.

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