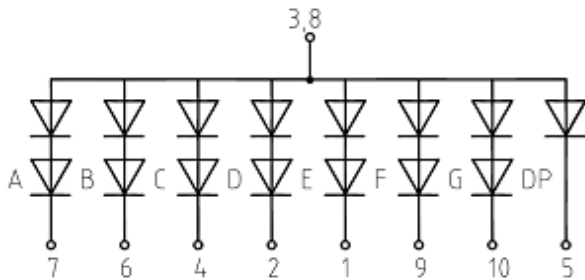
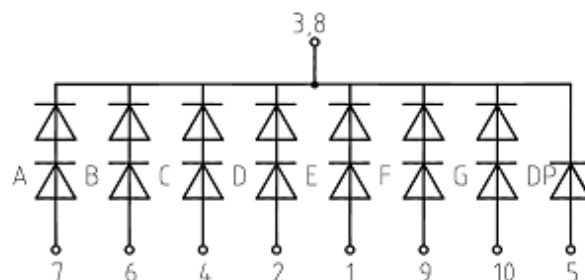


Circuit Diagram

Common Anode



Common Cathode



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	104/52	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	10/5	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	

For product information and a complete list of distributors, please go to our web site: www.avagotech.com

Avago, Avago Technologies, and the A logo are trademarks of Avago Technologies, Pte. in the United States and other countries. Data subject to change. Copyright © 2005 Avago Technologies Pte. All rights reserved. Obsoletes Pub No. Pub Number - Date (12/07/2012)

AVAGO
TECHNOLOGIES

Electrical / Optical Characteristic at T_A = 25°C**Red**

Parameter	Symbol	Min	Typ	Max	Units	Test Conditions
Average Luminous Intensity (Digit Average)	I _v	–	70	–	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	–	4.0/2.0	5.2/2.6	V	I _F = 20mA
Reverse Current per segment / DP	I _R	–	–	100	μA	V _R = 10V/ 5V(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	–	25	–	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	–	4.0/2.0	5.2/2.6	V	I _F = 20mA
Reverse Current per segment / DP	I _R	–	–	100	μA	V _R = 10V/ 5V(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	–	60	–	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	–	4.0/2.0	5.2/2.6	V	I _F = 20mA
Reverse Current per segment / DP	I _R	–	–	100	μA	V _R = 10V/ 5V(DP)
Luminous Intensity Matching Ratio (Segment to Segment)	I _{v-M}		2:1			I _F = 10mA

For product information and a complete list of distributors, please go to our web site: www.avagotech.com

Avago, Avago Technologies, and the A logo are trademarks of Avago Technologies, Pte. in the United States and other countries. Data subject to change. Copyright © 2005 Avago Technologies Pte. All rights reserved. Obsoletes Pub No. Pub Number - Date (12/07/2012)



Orange

Parameter	Symbol	Min	Typ	Max	Units	Test Conditions
Average Luminous Intensity (Digit Average)	I_V	–	80	–	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	–	4.0/2.0	5.2/2.6	V	$I_F = 20\text{mA}$
Reverse Current per segment / DP	I_R	–	–	100	μA	$V_R = 10\text{V}/5\text{V}(\text{DP})$
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	–	70	–	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	–	4.0/2.0	5.2/2.6	V	$I_F = 20\text{mA}$
Reverse Current per segment / DP	I_R	–	–	100	μA	$V_R = 10\text{V}/5\text{V}(\text{DP})$
Luminous Intensity Matching Ratio (Segment to Segment)	I_{V-M}		2:1			$I_F = 10\text{mA}$

For product information and a complete list of distributors, please go to our web site: www.avagotech.com

Avago, Avago Technologies, and the A logo are trademarks of Avago Technologies, Pte. in the United States and other countries. Data subject to change. Copyright © 2005 Avago Technologies Pte. All rights reserved. Obsoletes Pub No. Pub Number - Date (12/07/2012)



Red

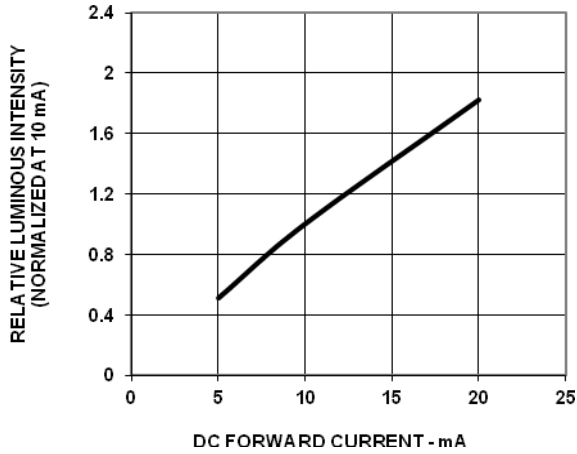


Fig 1: Relative Luminous Intensity Vs Forward Current

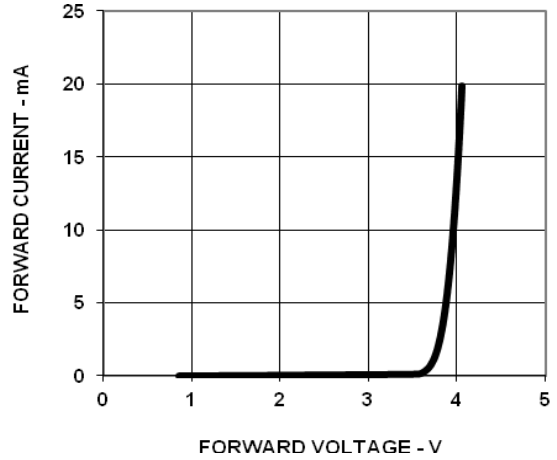


Fig 2: Forward Voltage Vs Current (Segment)

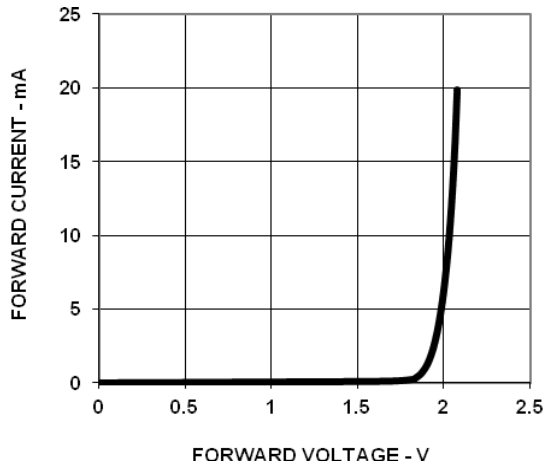


Fig 3: Forward Voltage Vs Current (DP)

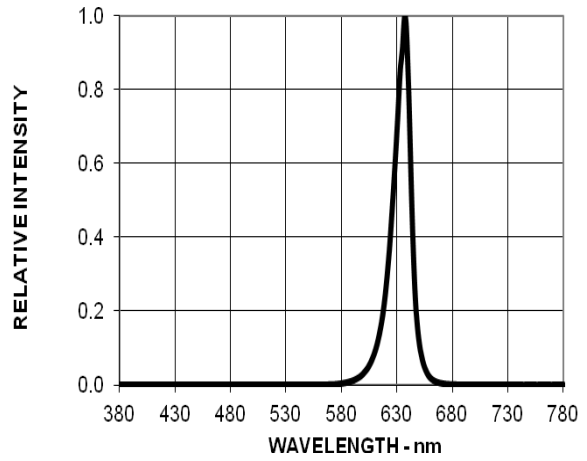


Fig 4: Relative Luminous Intensity Vs Wavelength

For product information and a complete list of distributors, please go to our web site: www.avagotech.com

Avago, Avago Technologies, and the A logo are trademarks of Avago Technologies, Pte. in the United States and other countries. Data subject to change. Copyright © 2005 Avago Technologies Pte. All rights reserved. Obsoletes Pub No. Pub Number - Date (12/07/2012)

AVAGO
TECHNOLOGIES

Green

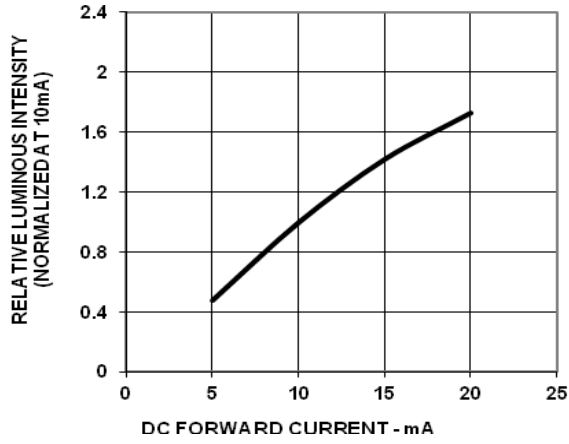


Fig 1: Relative Luminous Intensity Vs Forward Current

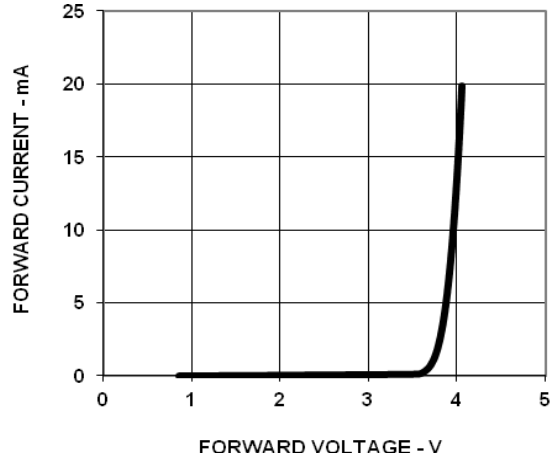


Fig 2: Forward Voltage Vs Current (Segment)

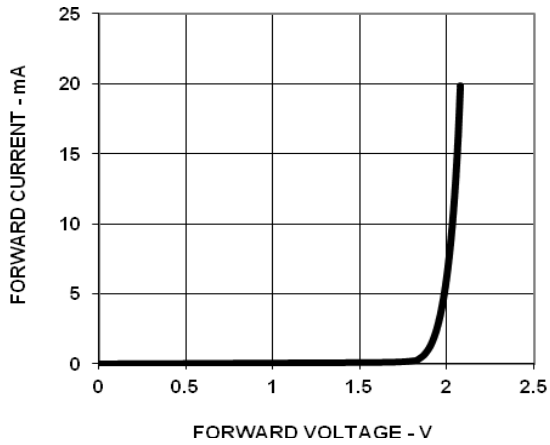


Fig 3: Forward Voltage Vs Current (DP)

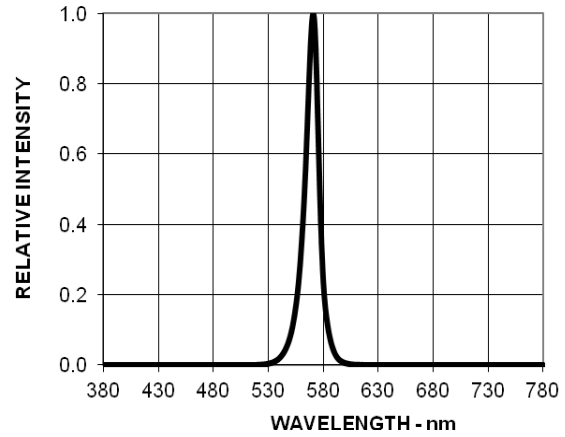


Fig 4: Relative Luminous Intensity Vs Wavelength

For product information and a complete list of distributors, please go to our web site: www.avagotech.com

Avago, Avago Technologies, and the A logo are trademarks of Avago Technologies, Pte. in the United States and other countries. Data subject to change. Copyright © 2005 Avago Technologies Pte. All rights reserved. Obsoletes Pub No. Pub Number - Date (12/07/2012)

AVAGO
TECHNOLOGIES

Yellow

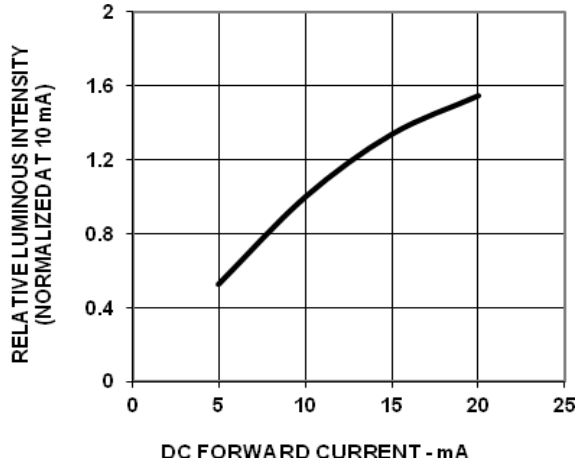


Fig 1: Relative Luminous Intensity Vs Forward Current

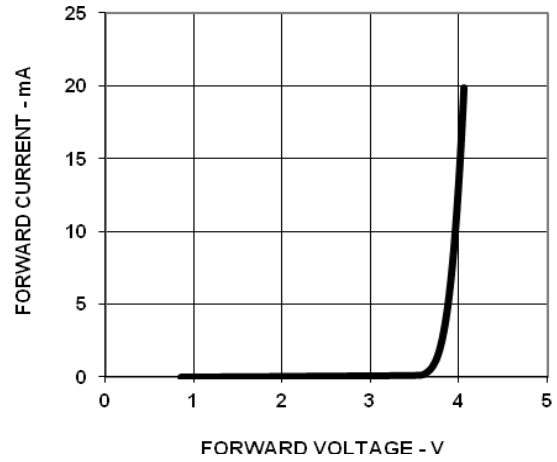


Fig 2: Forward Voltage Vs Current(Segment)

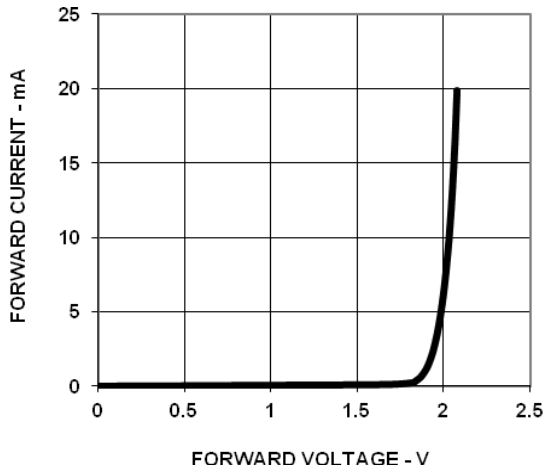


Fig 3: Forward Voltage Vs Current (DP)

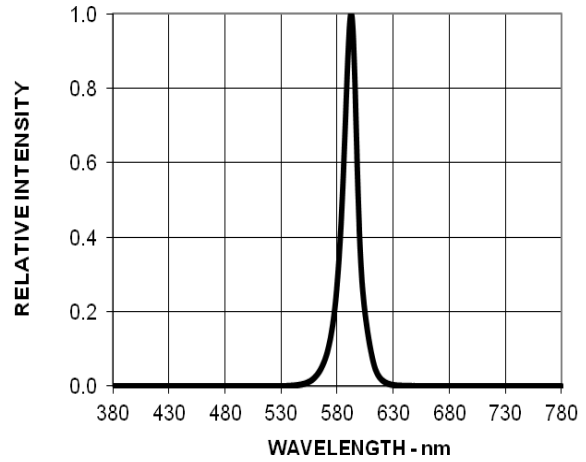


Fig 4: Relative Luminous Intensity Vs Wavelength

For product information and a complete list of distributors, please go to our web site: www.avagotech.com

Avago, Avago Technologies, and the A logo are trademarks of Avago Technologies, Pte. in the United States and other countries. Data subject to change. Copyright © 2005 Avago Technologies Pte. All rights reserved. Obsoletes Pub No. Pub Number - Date (12/07/2012)

AVAGO
TECHNOLOGIES

Orange

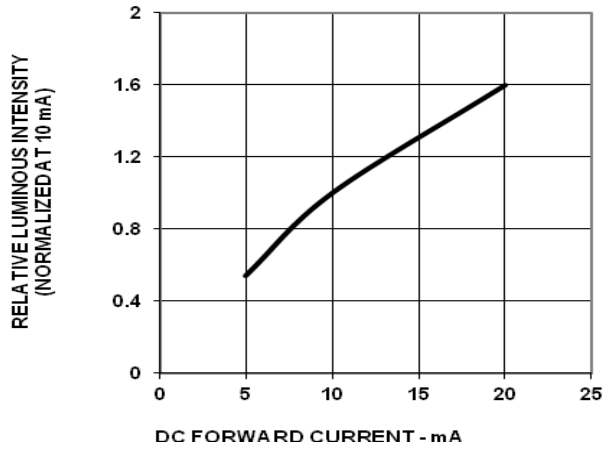


Fig 1: Relative Luminous Intensity Vs Forward Current

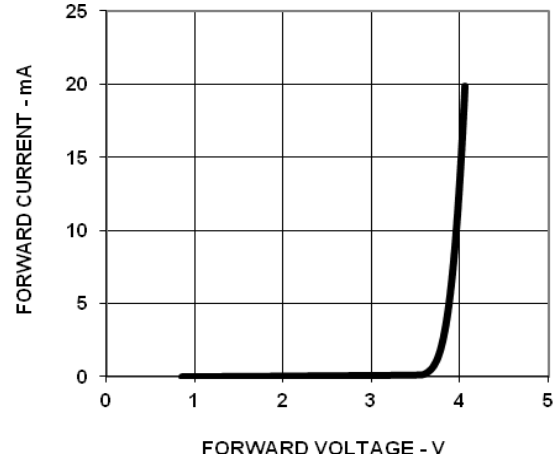


Fig 2: Forward Voltage Vs Current (Segment)

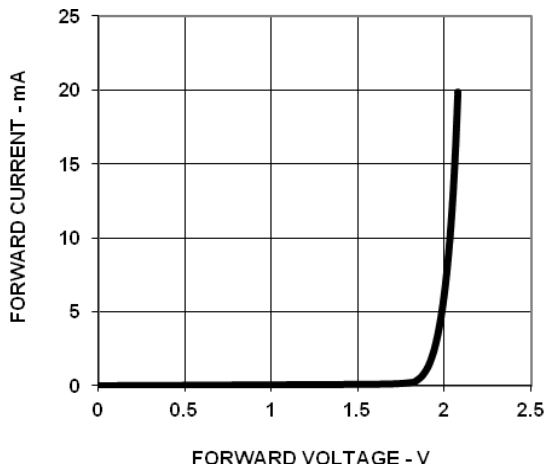


Fig 3: Forward Voltage Vs Current (DP)

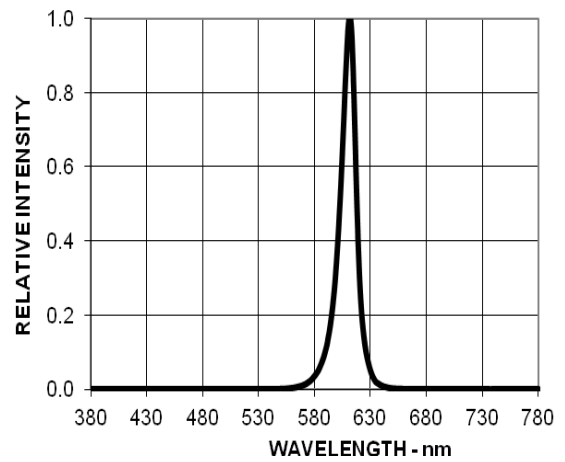


Fig 4: Relative Luminous Intensity Vs Wavelength

For product information and a complete list of distributors, please go to our web site: www.avagotech.com

Avago, Avago Technologies, and the A logo are trademarks of Avago Technologies, Pte. in the United States and other countries. Data subject to change. Copyright © 2005 Avago Technologies Pte. All rights reserved. Obsoletes Pub No. Pub Number - Date (12/07/2012)

AVAGO
TECHNOLOGIES

Deep Red

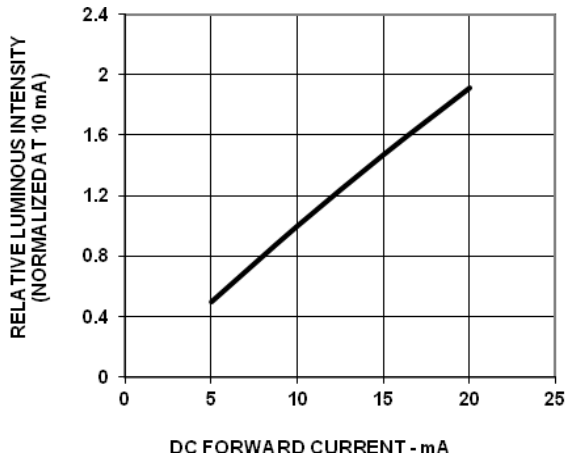


Fig 1: Relative Luminous Intensity Vs Forward Current

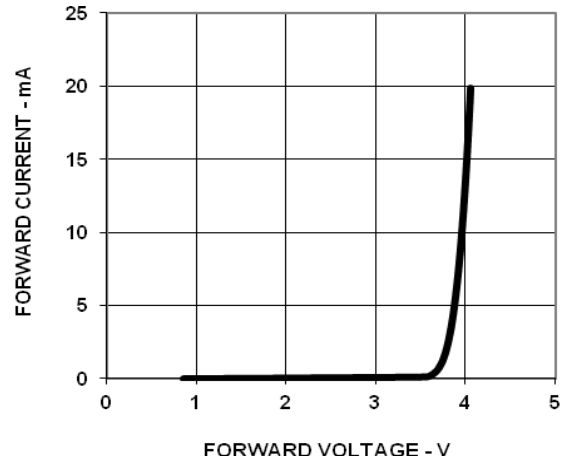


Fig 2: Forward Voltage Vs Current (Segment)

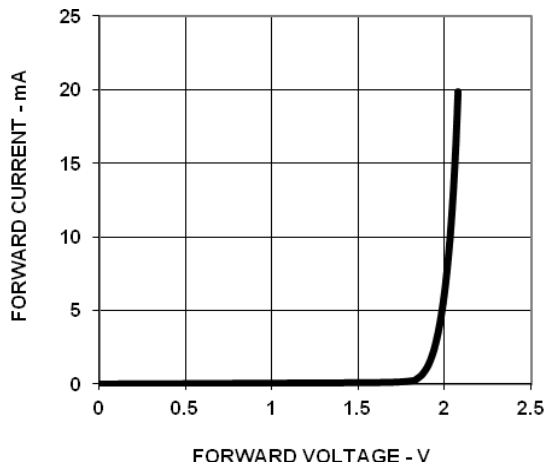


Fig 3: Forward Voltage Vs Current (DP)

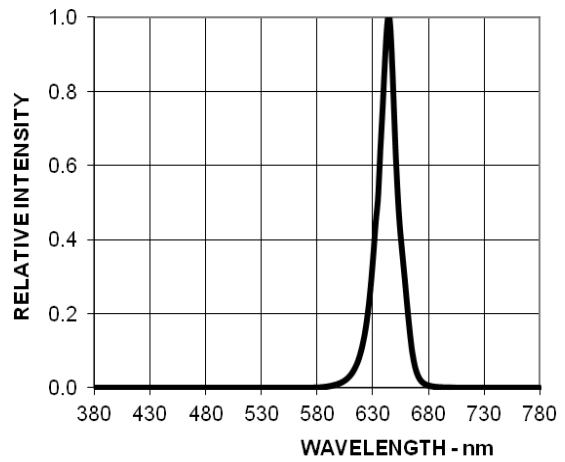


Fig 4: Relative Luminous Intensity Vs Wavelength

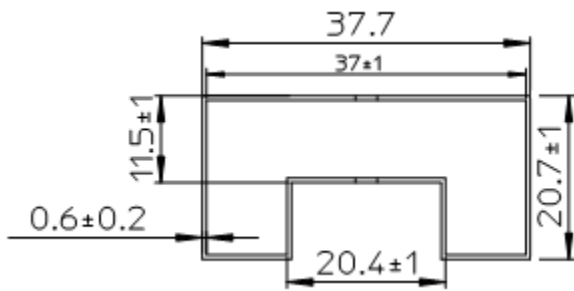
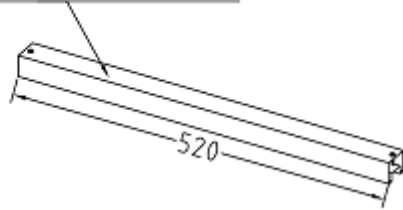
For product information and a complete list of distributors, please go to our web site: www.avagotech.com

Avago, Avago Technologies, and the A logo are trademarks of Avago Technologies, Pte. in the United States and other countries. Data subject to change. Copyright © 2005 Avago Technologies Pte. All rights reserved. Obsoletes Pub No. Pub Number - Date (12/07/2012)

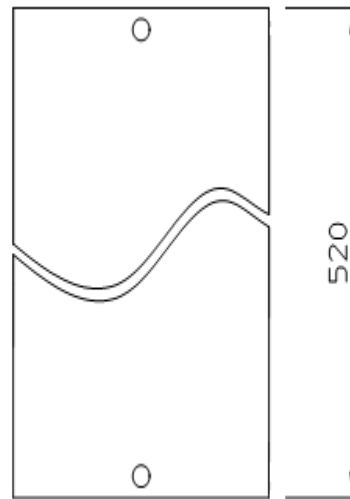
AVAGO
TECHNOLOGIES

Packing Tube Specifications:

20 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.

For product information and a complete list of distributors, please go to our web site: www.avagotech.com

Avago, Avago Technologies, and the A logo are trademarks of Avago Technologies, Pte. in the United States and other countries. Data subject to change. Copyright © 2005 Avago Technologies Pte. All rights reserved. Obsoletes Pub No. Pub Number - Date (12/07/2012)

