

Round LED

3mm, Red/Yellow Green

multicomp^{PRO}

RoHS
Compliant



Features

- Low power consumption
- Excellent product quality and reliability
- I,c. compatible
- Lead-free device

Applications

- Status indicators
- Commercial use
- Backlights
- Advertising Signs

Device Selection Guide

Part No.	Chip		Lens color
MP008532	Material	Emitted color	White Diffused
	GaAsP	Red	
	GaAsP	Yellow Green	

Absolute Maximum Ratings: (T_A = 25°C)

Parameter	Symbol	Value		Unit
		Red	Yellow Green	
Power Dissipation	P _D	50		mW
Forward Current	I _F	30		mA
Peak Forward Current ^{*1}	I _{FP}	100		mA
Reverse Voltage	V _R	5		V
Operating Temperature	T _{OPR}	-40 to +85		°C
Storage Temperature	T _{STG}	-40 to +85		°C
Soldering Temperature ^{*2}	T _{SOI}	260°C For 5 Seconds		

Notes:

*1: Pulse width ≤ 0.1ms, Duty cycle ≤ 1/10

*2: 1.66mm below package base.

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

multicomp^{PRO}

Round LED

3mm, Red/Yellow Green

multicomp PRO

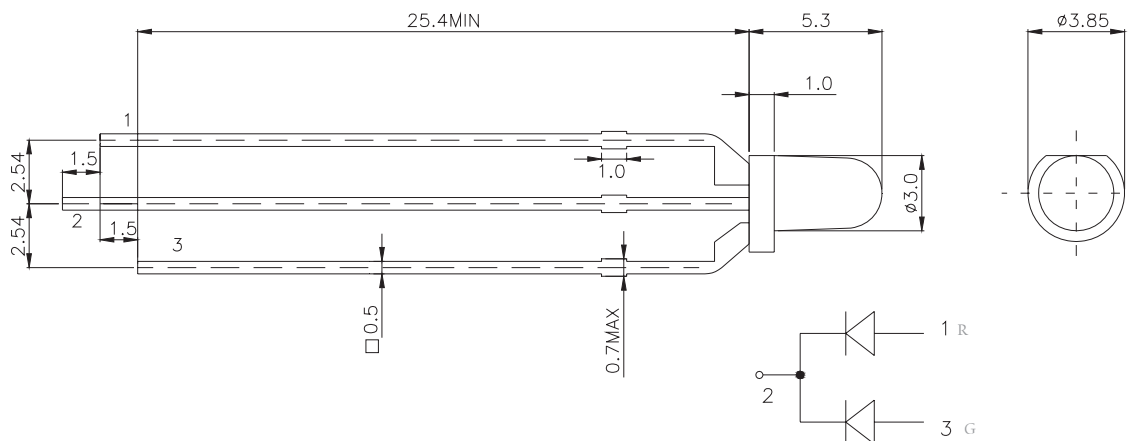
Electrical / Optical Characteristics at T _A = 25°C							
Parameter		Symbol	Min.	Typ.	Max	Unit	Test Conditions
Forward Voltage	Red	V _F	1.8	2	2.6	V	I _F =20mA
	Yellow Green	V _F	1.8	2.1	2.6	V	
Reverse Current	Red	I _R	—	—	10	μA	V _R =5V
	Yellow Green	I _R	—	—	10	μA	
Dominant Wavelength	Red	λ _d	620	625	630	nm	I _F =20mA
	Yellow Green	λ _d	568	572	576	nm	
Peak Wavelength	Red	λ _P	—	635	—	nm	
	Yellow Green	λ _P	—	570	—	nm	
Spectral line Half-width	Red	Δλ	—	20	—	nm	
	Yellow Green	Δλ	—	25	—	nm	
Luminous Intensity	Red	I _v	15	20	40	mcd	
	Yellow Green	I _v	15	30	60	mcd	
Power Angle		2θ _{1/2}	—	60	—	Deg	

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or dominant wavelength), the typical accuracy of the sorting process is as follows:

1. Dominant Wavelength: +/-1nm
2. Chromatic Coordinates: +/-0.01
3. Luminous Intensity: +/-15%
4. Forward Voltage: +/-0.1V
5. The design and working current for LED is not less than 2mA.

Dimensions



Notes:

1. Tolerance is ±0.25 unless otherwise noted.
2. Lead spacing is measured where the leads emerge from the package.
3. Specifications are subject to change without notice.

Dimensions : Millimetres

Newark.com/multicomp-pro
 Farnell.com/multicomp-pro
 Element14.com/multicomp-pro

multicomp PRO

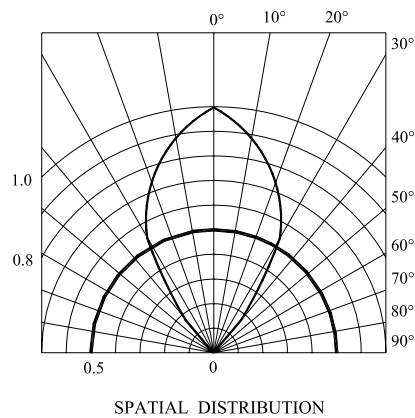
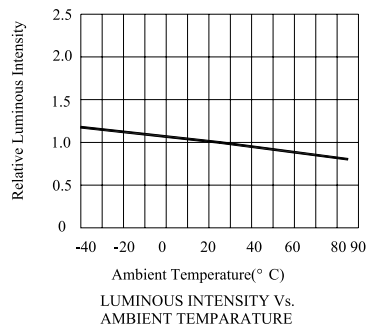
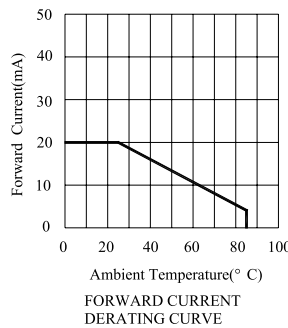
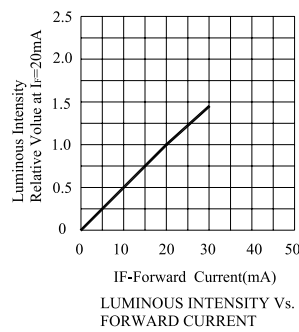
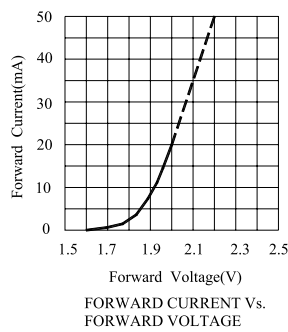
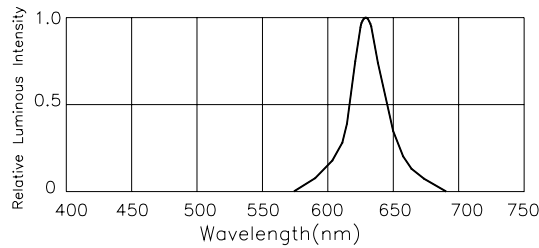
Round LED

3mm, Red/Yellow Green

Typical Electrical/Optical Characteristics Curves

(Ta=25°C Unless Otherwise Noted)

Red

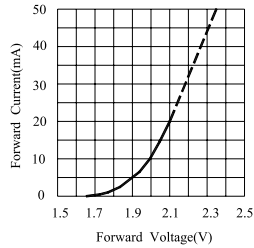
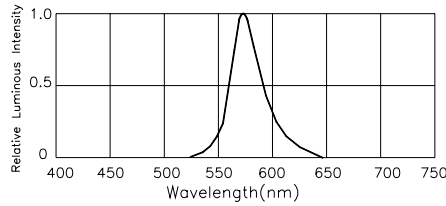


Round LED

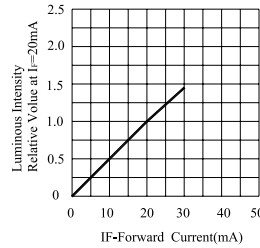
3mm, Red/Yellow Green

multicomp PRO

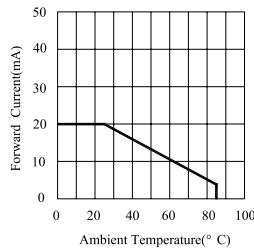
Yellow Green



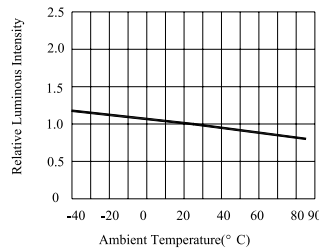
FORWARD CURRENT Vs. FORWARD VOLTAGE



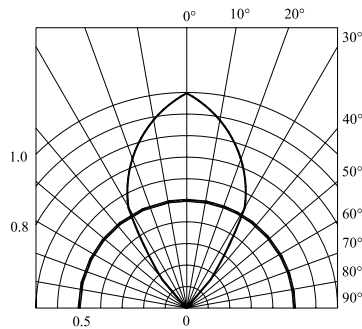
LUMINOUS INTENSITY Vs. FORWARD CURRENT



FORWARD CURRENT DERATING CURVE



LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



Part Number Table

Description	Part Number
Round LED, Red/Yellow Green, 635nm/570nm, 60°, 20mcd/30mcd, Through hole	MP008532

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro
 Farnell.com/multicomp-pro
 Element14.com/multicomp-pro

multicomp PRO