Round LED 5mm, White



RoHS Compliant



Features

- · Low power consumption
- · Excellent product quality and reliability
- · Lead-free device.

Applications

- · Electronic signs and signals
- · Bright ambient lighting conditions
- · Backlights.
- · General purpose indicatiors

Device Selection Guide							
Part No.	Cl	Lens color					
MP008548	Material	Emitted color	White Diffuse				
	InGaN	White	vvilile Dilluse				

Absolute Maximum Ratings: (T _A = 25°C)							
Parameter	Symbol	Value	Unit				
Power Dissipation	Po	120	mW				
Forward Current	lF	30	mA				
Peak Forward Current ^{*1}	I FP	100	mA				
Reverse Voltage	VR	5	V				
Operating Temperature	Topr	-40 to +85	°C				
Storage Temperature	Тѕтс	-40 to +85	°C				
Soldering Temperature ^{*2}	Tsoı	260°C For 5 Seconds					

Notes



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

^{*2: 1.6}mm below package base.

Round LED

5mm, White



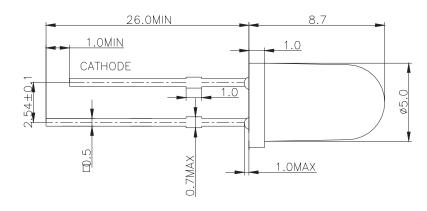
Electrical / Optical Characterisitics at T _A = 25°C							
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition	
Forward Voltage	VF	_	3.2	_	V	IF = 20mA	
Reverse Current	lr		-	10	uA	VR=5V	
Chromaticity Coordinates	Х		0.27	_	nm		
Chromaticity Coordinates	Y		0.28	_	nm	IF=20mA	
Luminous Intensity	IV	_	2500	_	mcd		
Power Angle	201/2		35	_	Deg.		

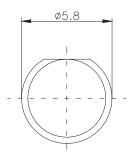
Remarks:

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





Dimensions: Millimetres

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.

VF Rank

Donk	VF	Condition			
Rank	Min	Max	Condition		
F	2.8	3	- IF=20mA		
G	3	3.2			
Н	3.2	3.4			
ı	3.4	3.6			

Tolerance: ±0.1V



Round LED 5mm, White

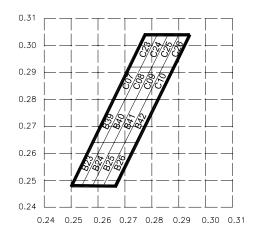
multicomp PRO

IV Rank

Dank	IV(n	Condition	
Rank	Min	Max	Condition
0	1700	2500	IF=20mA
Р	2500	3800	IF-∠UMA

Tolerance: ±15%

X/Y Rank



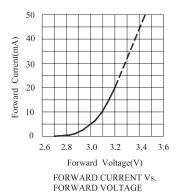
B23	X	0. 250	0. 258	0. 262	0. 254	C07	X	0. 266	0. 272	0. 276	0. 270
B23	Y	0. 248	0. 264	0. 264	0. 248	007	Y	0. 280	0. 292	0. 292	0. 280
DO 4	X	0. 254	0. 262	0. 266	0. 258	C08	X	0. 270	0. 276	0. 280	0. 274
B24	Y	0. 248	0. 264	0. 264	0. 248	008	Y	0. 280	0. 292	0. 292	0. 280
DOE	X	0. 258	0. 266	0. 270	0. 262	C00	X	0. 274	0. 280	0. 284	0. 278
B25	Y	0. 248	0. 264	0. 264	0. 248	C09	Y	0. 280	0. 292	0. 292	0. 280
noc	X	0. 262	0. 270	0. 274	0. 266	61.0	X	0. 278	0. 284	0. 288	0. 282
B26	Y	0. 248	0. 264	0. 264	0. 248	C10	Y	0. 280	0. 292	0. 292	0. 280
В39	X	0. 258	0. 266	0. 270	0. 262	C23	X	0. 272	0. 278	0. 282	0. 276
БЭЭ	Y	0. 264	0. 280	0. 280	0. 264	U23	Υ	0. 292	0. 304	0. 304	0. 292
B40	X	0. 262	0. 270	0. 274	0. 266	C9.4	X	0. 276	0. 282	0. 286	0. 280
Б40	Y	0. 264	0. 280	0. 280	0. 264	C24	Y	0. 292	0. 304	0. 304	0. 292
D.4.1	X	0. 266	0. 274	0. 278	0. 270	COE	X	0. 280	0. 286	0. 290	0. 284
B41	Y	0. 264	0. 280	0. 280	0. 264	C25	Y	0. 292	0. 304	0. 304	0. 292
D49	X	0. 270	0. 278	0. 282	0. 274	C26	X	0. 284	0. 290	0. 294	0. 288
B42	Y	0. 264	0. 280	0. 280	0. 264		Y	0. 292	0.304	0.304	0. 292

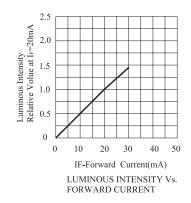


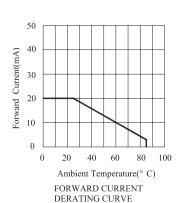
Round LED 5mm, White

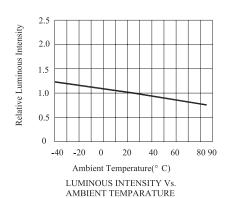


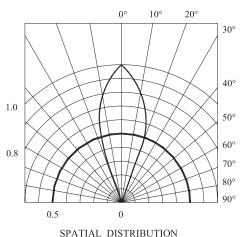
Typical Electrical/Optical Characteristics Curves (Ta=25°C Unless Otherwise Noted)











Part Number Table

Description	Part Number
Round LED, White, 120mW, 35°, 2500mcd, Through hole	MP008548

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.

