

Caratteristiche tecniche dei LED da 20mA utilizzati per la realizzazione delle lampade del progetto "ECO-LAMP"
wutel.net (<http://www.wutel.net/ecolamp>)



5mm Round Head White Piranha FLUX LED Lamp with 25.000mcd

Electrical-Optical Characteristic (Ta=25°C)

Item		Conditions	Min.	Typ.	Max..	Unit
Forward Voltage	VF	If=20mA	3.0	3.2	3.4	V
Reverse Current	IR	VR=5V	/	/	2	uA
Dominant Wavelength	λp	IF=20mA	/	/	/	/
Luminous Intensity	IV	IF=20mA	/	25,000	27,000	mcd
Recommend Forward Current	IF(rec)	--	--	20	--	mA
50% Power Angle	2θ1/2	IF=20mA	/	120	/	degree

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Absolute Max. Rating	Unit
Power Dissipation	PD	100	mW
Forward Current (DC)	IF	20	mA
Peak Forward Current	IFP	30	mA
Reverse Voltage	VR	5	V
Operation Temperature	Topr	-25~80°C	/
Storage Temperature	Tstg	-40~80°C	/
Lead Soldering Temperature	Tsol	Max. 230°C for 5 sec.	

http://cgi.ebay.it/50p-5mm-SUPERBRIGHT-WHITE-FLUX-LED-LAMP-25KmcdFREE-SHIP-/350085219102?pt=LH_DefaultDomain_0&hash=item5182b4831e



8mm White LED Light with 75.000mcd

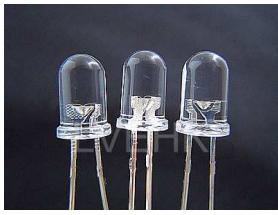
Electrical-Optical Characteristic (Ta=25°C)

Item		Conditions	Min.	Typ.	Max..	Unit
Forward Voltage	VF	If=20mA	3.0	3.2	3.6	V
Reverse Current	IR	VR=5V	/	/	10	uA
Dominant Wavelength	λp	IF=20mA	/	/	/	K
Luminous Intensity	IV	IF=20mA	/	75,000	/	mcd
Recommend Forward Current	IF(rec)	--	--	20	--	mA
50% Power Angle	2θ1/2	IF=20mA	/	45	/	degree

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Absolute Max. Rating	Unit
Power Dissipation	PD	100	mW
Forward Current (DC)	IF	20	mA
Peak Forward Current	IFP	30	mA
Reverse Voltage	VR	5	V
Operation Temperature	Topr	-25~80°C	/
Storage Temperature	Tstg	-40~80°C	/
Lead Soldering Temperature	Tsol	Max. 230°C for 5 sec.	

http://cgi.ebay.it/50p-8mm-SUPERBRIGHT-WHITE-LED-LAMP-75-000mcd-FREE-SHIP-/370279931857?pt=LH_DefaultDomain_0&hash=item5636675fd1



5mm White LED Light with 55.000mcd

Electrical-Optical Characteristic (Ta=25°C)

Item		Conditions	Min.	Typ.	Max..	Unit
Forward Voltage	VF	If=20mA	3.0	3.2	3.6	V
Reverse Current	IR	VR=5V	/	/	10	uA
Dominant Wavelength	λ_p	IF=20mA	/	/	/	K
Luminous Intensity	IV	IF=20mA	/	55,000	/	mcd
Recommend Forward Current	IF(rec)	--	--	20	--	mA
50% Power Angle	2θ1/2	IF=20mA	/	25	/	degree

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Absolute Max. Rating	Unit
Power Dissipation	PD	100	mW
Forward Current (DC)	IF	20	mA
Peak Forward Current	IFP	30	mA
Reverse Voltage	VR	5	V
Operation Temperature	Topr	-25~80°C	/
Storage Temperature	Tstg	-40~80°C	/
Lead Soldering Temperature	Tsol	Max. 230°C for 5 sec.	

http://cgi.ebay.it/50p-5mm-SUPER-BRIGHT-WHITE-LED-55-000mcd-Free-SHIPPING-/370279925785?pt=LH_DefaultDomain_0&hash=item5636674819



4.8mm STRAW HAT WHITE LED 17.000mcd

Electrical-Optical Characteristic (Ta=25°C)

Item		Conditions	Min.	Typ.	Max..	Unit
Forward Voltage	VF	If=20mA	3.0	3.2	3.6	V
Reverse Current	IR	VR=5V	/	/	10	uA
Dominant Wavelength	λp	IF=20mA	/	/	/	K
Luminous Intensity	IV	IF=20mA	/	17,000	20,000	mcd
Recommend Forward Current	IF(rec)	--	--	20	--	mA
50% Power Angle	2θ1/2	IF=20mA	/	100	/	degree

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Absolute Max. Rating	Unit
Power Dissipation	PD	100	mW
Forward Current (DC)	IF	20	mA
Peak Forward Current	IFP	30	mA
Reverse Voltage	VR	5	V
Operation Temperature	Topr	-25~80°C	/
Storage Temperature	Tstg	-40~80°C	/
Lead Soldering Temperature	Tsol	Max. 230°C for 5 sec.	

http://cgi.ebay.it/50p-4-8mm-STRAW-HAT-WHITE-LED-17000mcd-FREE-RESISTOR-/370289560449?pt=LH_DefaultDomain_0&hash=item5636fa4b81



4.8mm GOLDEN WARM WHITE LED 14.000mcd

Electrical-Optical Characteristic (Ta=25°C)

Item		Conditions	Min.	Typ.	Max..	Unit
Forward Voltage	VF	If=20mA	3.0	3.2	3.6	V
Reverse Current	IR	VR=5V	/	/	10	uA
Dominant Wavelength	λ_p	IF=20mA	3000	/	4000	K
Luminous Intensity	IV	IF=20mA	/	14,000	/	mcd
Recommend Forward Current	IF(rec)	--	--	20	--	mA
50% Power Angle	2θ1/2	IF=20mA	/	100	/	degree

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Absolute Max. Rating	Unit
Power Dissipation	PD	100	mW
Forward Current (DC)	IF	20	mA
Peak Forward Current	IFP	30	mA
Reverse Voltage	VR	5	V
Operation Temperature	Topr	-25~80°C	/
Storage Temperature	Tstg	-40~80°C	/
Lead Soldering Temperature	Tsol	Max. 230°C for 5 sec.	



3mm White LED Light with 22.000mcd

Electrical-Optical Characteristic (Ta=25°C)

Item		Conditions	Min.	Typ.	Max..	Unit
Forward Voltage	VF	If=20mA	3.0	3.2	3.6	V
Reverse Current	IR	VR=5V	/	/	10	uA
Dominant Wavelength	λp	IF=20mA	/	/	/	K
Luminous Intensity	IV	IF=20mA	/	20,000	22,000	mcd
Recommend Forward Current	IF(rec)	--	--	20	--	mA
50% Power Angle	2θ1/2	IF=20mA	/	20	/	degree

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Absolute Max. Rating	Unit
Power Dissipation	PD	100	mW
Forward Current (DC)	IF	20	mA
Peak Forward Current	IFP	30	mA
Reverse Voltage	VR	5	V
Operation Temperature	Topr	-25~80°C	/
Storage Temperature	Tstg	-40~80°C	/
Lead Soldering Temperature	Tsol	Max. 230°C for 5 sec.	

http://cgi.ebay.it/50p-3mm-SUPER-BRIGHT-WHITE-LED-LAMP-22Kmcd-FREE-SHIP-/350270090006?pt=LH_DefaultDomain_0&hash=item518db96b16



10mm White LED Light with 140.000mcd

Electrical-Optical Characteristic (Ta=25°C)

Item		Conditions	Min.	Typ.	Max..	Unit
Forward Voltage	VF	If=20mA	3.0	3.2	3.6	V
Reverse Current	IR	VR=5V	/	/	10	uA
Dominant Wavelength	λp	IF=20mA	/	/	/	nm
Luminous Intensity	IV	IF=20mA	110,000	120,000	140,000	mcd
Recommend Forward Current	IF(rec)	--	--	20	--	mA
50% Power Angle	2θ1/2	IF=20mA	/	15	/	degree

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Absolute Max. Rating	Unit
Power Dissipation	PD	100	mW
Forward Current (DC)	IF	20	mA
Peak Forward Current	IFP	30	mA
Reverse Voltage	VR	5	V
Operation Temperature	Topr	-25~80°C	/
Storage Temperature	Tstg	-40~80°C	/
Lead Soldering Temperature	Tsol	Max. 230°C for 5 sec.	

http://cgi.ebay.it/50p-10mm-SUPER-BRIGHT-WHITE-LED-LAMP-140Kmcd-FREE-SHIP-/370279921071?pt=LH_DefaultDomain_0&hash=item56366735af



5mm Flat-Top White LED Light 20.000mcd

Electrical-Optical Characteristic (Ta=25°C)

Item		Conditions	Min.	Typ.	Max..	Unit
Forward Voltage	VF	If=20mA	3.0	3.2	3.6	V
Reverse Current	IR	VR=5V	/	/	10	uA
Dominant Wavelength	λp	IF=20mA	/	/	/	nm
Luminous Intensity	IV	IF=20mA	/	20,000	23,000	mcd
Recommend Forward Current	IF(rec)	--	--	20	--	mA
50% Power Angle	2θ1/2	IF=20mA	/	140	/	degree

Item	Symbol	Absolute Max. Rating	Unit
Power Dissipation	PD	100	mW
Forward Current (DC)	IF	20	mA
Peak Forward Current	IFP	30	mA
Reverse Voltage	VR	5	V
Operation Temperature	Topr	-25~80°C	/
Storage Temperature	Tstg	-40~80°C	/
Lead Soldering Temperature	Tsol	Max. 230°C for 5 sec.	

http://cgi.ebay.it/50p-5mm-FLAT-TOP-WHITE-LED-20-000mcd-Free-RESISTORS-/370280110917?pt=LH_DefaultDomain_0&hash=item56366a1b45