Brighton
Lighting Innovation

FEATURES:

- Customized curved LED Profile rectangular Pendant light

Body

- Made of aluminium alloy (6063) with surface powder coated.
- White, Black, Silver, Gold finish

Diffuser

- Prismatic or Opal Polycarbonate.

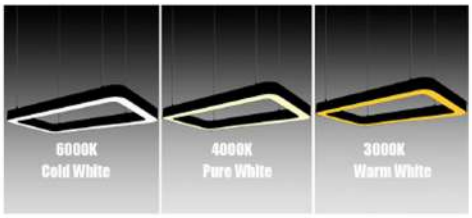
Others

- Stainless steel mounting kit.
- High quality SMD LED Chip: Philips, Osram
- Dimmable Dali / TRIAC 1 - 10V Available on request
- Heat resistant and solid conduct wiring
- Ideal for Conference Room,Office,Lobby,etc.
- European standard of EN 60598

CRI > 90 | UGR < 16 | No flickering | Triac Dimming | 1-10V Dimming | DALI Dimming

Available: 3000K | 3500K | 4000K | 4500K | 5000 - 5500K | 6000 - 6500K

IP44

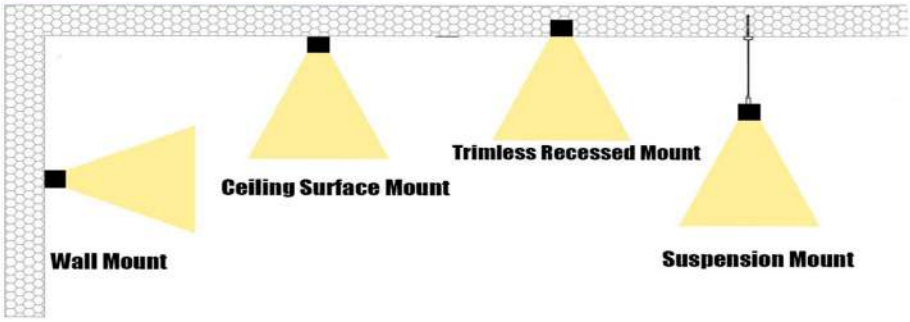


BR-DSM21

BR-IDSM22

Equipped with high-efficiency SMD LEDs for superior brightness, low power consumption, and long lifespan.

Installation Options:



Parameters	
Input Voltage	: AC100-277V / AC220-240V,50-60HZ
Material	: 6063 Aluminium Profile + Opal Diffuser
Profile Size	: W37*H60mm / W40*H60mm / W60*H60mm / W80*H80mm / W100*H80mm
Size Option	: 1*0.55m /1.2*0.6m /1.5*0.6m / 1.8*0.6m / 1.8*0.9m / 2.4*0.6m / 2.4*0.8m / 2.4*1.2m / 3.6*1.2m
Driver Brand	: BOKE / Cupower / Meanwell / Philips
Emitting Color Option	: 3000K / 4000K / 6000K / Red / Blue / Green / Yellow / Pink / RGB
Luminous Flux	: 100-110Lm/W
CRI	: >80Ra
PF	: >0.90
Fllicker Free	: Yes
Beam Angle	: 120°
Function Option	: ON&OFF / 0-10V Dimming / Triac Dimming / DALI Dimming
Installation Option	: Suspension Mount / Ceiling Surface Mount / Wall Mount / Trimless Recessed Mount
Finish Color	: Black / White
IP Grade	: IP44 (IP65 Available on request.)

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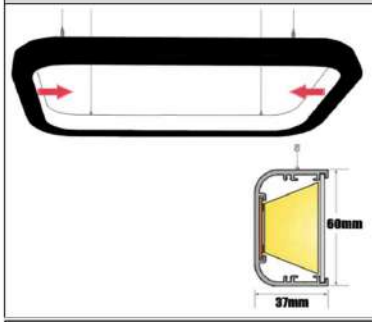
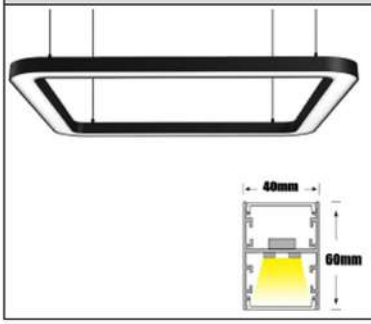
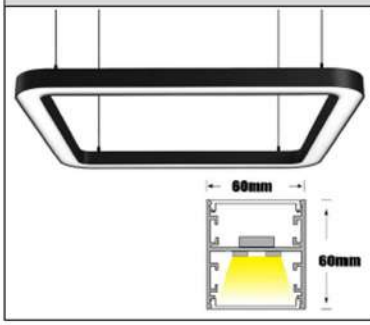
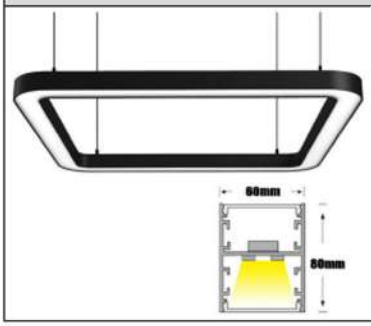
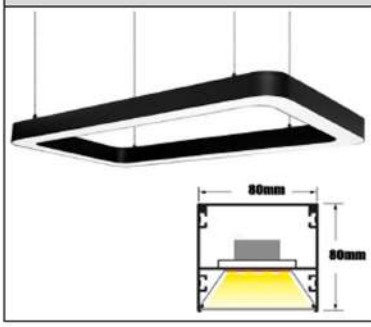
BR-IDSM22/3760	Watt	Lumens	CCT	Product Size	Profile Size	Finish Color
	36W	3600Lm	2700K - 6500K	L1000*W550*H60mm	W37*H60mm	Black / White
	54W	5400Lm		L1200*W600*H60mm	W37*H60mm	Black / White
	72W	7200Lm		L1500*W600*H60mm	W37*H60mm	Black / White
	90W	9000Lm		L1800*W600*H60mm	W37*H60mm	Black / White
	108W	10800Lm		L1800*W900*H60mm	W37*H60mm	Black / White
	120W	12000Lm		L2400*W600*H60mm	W37*H60mm	Black / White
	144W	14400Lm		L2400*W800*H60mm	W37*H60mm	Black / White
	180W	18000Lm		L2400*W1200*H60mm	W37*H60mm	Black / White
	196W	19600Lm		L3600*W1200*H60mm	W37*H60mm	Black / White

BR-DSM21/4060	Watt	Lumens	CCT	Product Size	Profile Size	Finish Color
	30W	3000Lm	2700K - 6500K	L1000*W550*H60mm	W40*H60mm	Black / White
	36W	3600Lm		L1200*W600*H60mm	W40*H60mm	Black / White
	42W	4200Lm		L1500*W600*H60mm	W40*H60mm	Black / White
	48W	4800Lm		L1800*W600*H60mm	W40*H60mm	Black / White
	54W	5400Lm		L1800*W900*H60mm	W40*H60mm	Black / White
	60W	6000Lm		L2400*W600*H60mm	W40*H60mm	Black / White
	64W	6400Lm		L2400*W800*H60mm	W40*H60mm	Black / White
	72W	7200Lm		L2400*W1200*H60mm	W40*H60mm	Black / White
	96W	9600Lm		L3600*W1200*H60mm	W40*H60mm	Black / White

BR-DSM21/6060	Watt	Lumens	CCT	Product Size	Profile Size	Finish Color
	30W	3000Lm	2700K - 6500K	L1000*W550*H60mm	W60*H60mm	Black / White
	36W	3600Lm		L1200*W600*H60mm	W60*H60mm	Black / White
	42W	4200Lm		L1500*W600*H60mm	W60*H60mm	Black / White
	48W	4800Lm		L1800*W600*H60mm	W60*H60mm	Black / White
	54W	5400Lm		L1800*W900*H60mm	W60*H60mm	Black / White
	60W	6000Lm		L2400*W600*H60mm	W60*H60mm	Black / White
	64W	6400Lm		L2400*W800*H60mm	W60*H60mm	Black / White
	72W	7200Lm		L2400*W1200*H60mm	W60*H60mm	Black / White
	96W	9600Lm		L3600*W1200*H60mm	W60*H60mm	Black / White

BR-DSM21/6080	Watt	Lumens	CCT	Product Size	Profile Size	Finish Color
	30W	3000Lm	2700K - 6500K	L1000*W550*H80mm	W60*H80mm	Black / White
	36W	3600Lm		L1200*W600*H80mm	W60*H80mm	Black / White
	42W	4200Lm		L1500*W600*H80mm	W60*H80mm	Black / White
	48W	4800Lm		L1800*W600*H80mm	W60*H80mm	Black / White
	54W	5400Lm		L1800*W900*H80mm	W60*H80mm	Black / White
	60W	6000Lm		L2400*W600*H80mm	W60*H80mm	Black / White
	64W	6400Lm		L2400*W800*H80mm	W60*H80mm	Black / White
	72W	7200Lm		L2400*W1200*H60mm	W60*H80mm	Black / White
	96W	9600Lm		L3600*W1200*H60mm	W60*H80mm	Black / White

BR-DSM21/8080	Watt	Lumens	CCT	Product Size	Profile Size	Finish Color
	30W	3000Lm	2700K - 6500K	L1000*W550*H80mm	W80*H80mm	Black / White
	36W	3600Lm		L1200*W600*H80mm	W80*H80mm	Black / White
	42W	4200Lm		L1500*W600*H80mm	W80*H80mm	Black / White
	48W	4800Lm		L1800*W600*H80mm	W80*H80mm	Black / White
	54W	5400Lm		L1800*W900*H80mm	W80*H80mm	Black / White
	60W	6000Lm		L2400*W600*H80mm	W80*H80mm	Black / White
	64W	6400Lm		L2400*W800*H80mm	W80*H80mm	Black / White
	72W	7200Lm		L2400*W1200*H80mm	W80*H80mm	Black / White
	96W	9600Lm		L3600*W1200*H80mm	W80*H80mm	Black / White

Note: Custom size and wattage available on request.

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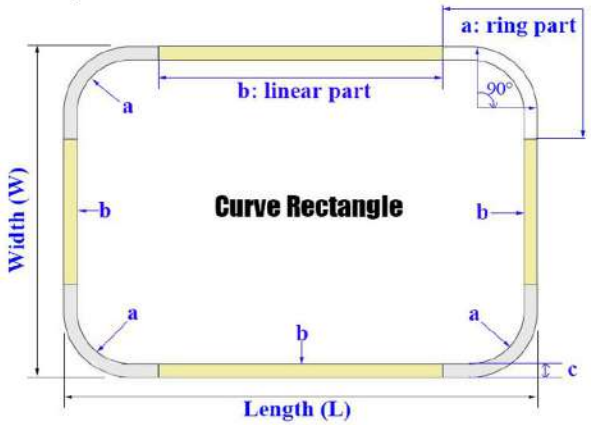
Product Size

* Side Length : 1*0.55m /1.2*0.6m /1.5*0.6m / 1.8*0.6m / 1.8*0.9m / 2.4*0.6m / 2.4*0.8m / 2.4*1.2m / 3.6*1.2m
* Customized length available.



L: Rectangle length
W: Rectangle width

a: ring part
b: linear part
c: PMMA diffuser width

Finish Color Option

* Standard finish color: black,white.
* Customized color: red,green,blue,pink,yellow,gold,silver

Accesories

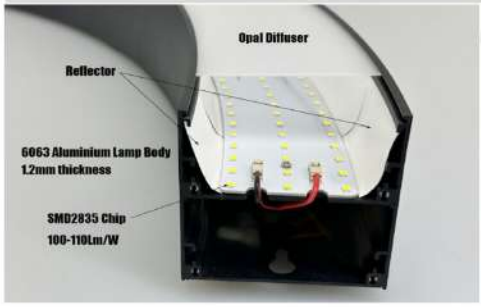
Suspendent installation kit for one lamp for single run and continuous run

Surface installation kit for one lamp for single run and continuous run

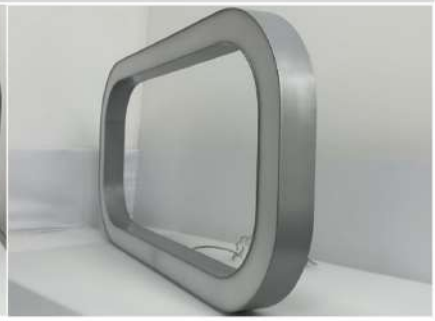
Recessed installation kit for one lamp for single run and continuous run

Connector for connecting one lamp to next one for continuous run

Product Details



Product Display



Application

* Hospital,Gym,Theater,Cinema,Exhibition Hall,Museum,Video Game Room.
* Hotel,Restaurant,Supermarket,Station,Airport,Cafe Shop,Bar,Club.
* Living Room,Bedroom,Conference Room,Office,Corridor,Lobby,etc.

GW JTLRS1.CM

DURIS® E 2835

The compact, mid-power DURIS® E 2835 LED with an industry standard footprint. Optimum lumen packages for retrofit applications and a truly cost optimize product. It is the ideal choice for all indoor General Lighting applications.

Applications

- Downlights/Spotlights
- Lamp Retrofits

Features:

- Package: white SMT package, colored diffused silicone resin
- Typ. Radiation: 120° (Lambertian emitter)
- Color temperature: 2200K - 6500K
- CRI: 90 (min.), 92 (typ.)
- Lumen maintenance: Test results according to IESNA LM-80 available
- ESD: 2 kV acc. to ANSI/ESDA/JEDEC JS-001 (HBM, Class 2)
- Luminous Flux: typ. 107 lm @ 2700 K
- Luminous efficacy: typ. 112 lm/W @ 2700 K

Ordering Information

Type	Color temperature	Luminous Flux [1] I_F = 100 mA Φ_V	Ordering Code
GW JTLRS1.CM-KWK5-XX510-1	2200 K	85 ... 130 lm	Q65113A1012
GW JTLRS1.CM-K1LW-XX58-1	2700 K	105 ... 140 lm	Q65112A9276
GW JTLRS1.CM-K1LW-XX57-1	3000 K	105 ... 140 lm	Q65113A1002
GW JTLRS1.CM-K1LW-XX56-1	3500 K	105 ... 140 lm	Q65113A1000
GW JTLRS1.CM-K2LW-XX55-1	4000 K	110 ... 140 lm	Q65113A1006
GW JTLRS1.CM-K2LW-XX53-1	5000 K	110 ... 140 lm	Q65113A1004
GW JTLRS1.CM-K3LW-XX52-1	5700 K	115 ... 140 lm	Q65113A1010
GW JTLRS1.CM-K3LW-XX51-1	6500 K	115 ... 140 lm	Q65113A1008

Maximum Ratings

Parameter	Symbol		Values
Operating Temperature	T_{op}	min. max.	-40 °C 100 °C
Storage Temperature	T_{stg}	min. max.	-40 °C 100 °C
Junction Temperature	T_j	max.	125 °C
Forward Current T_J = 25 °C	I_F	min. max.	10 mA 150 mA
Surge Current t ≤ 10 µs; D = 0.005 ; T_J = 25 °C	I_{FS}	max.	200 mA
ESD withstand voltage acc. to ANSI/ESDA/JEDEC JS-001 (HBM, Class 2)	V_{ESD}		2 kV

Characteristics

I_F = 100 mA; T_J = 25 °C

Parameter	Symbol		Values
Viewing angle at 50% I_V	2φ	typ.	120 °
Forward Voltage [2]	V_F	min. typ. max.	8.40 V 9.50 V 9.80 V
Reverse current [3]	I_R		Not designed for reverse operation
Color Rendering Index [4]	CRI	min. typ.	90 92
Electrical thermal resistance junction/solderpoint with efficiency η_e = 39 %	$R_{thJS\ elec.}$	typ.	13 K / W

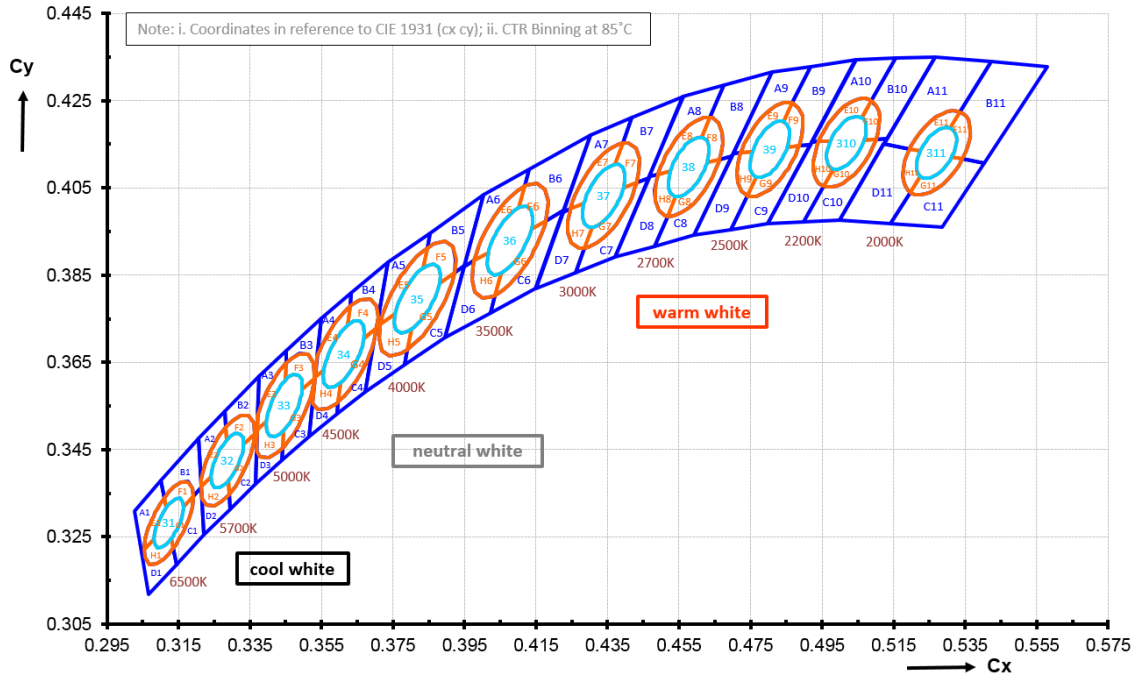
Brightness Groups

Group	Luminous Flux [1] I_F = 100 mA min. Φ_V	Luminous Flux [1] I_F = 100 mA max. Φ_V
KW	85 lm	90 lm
KX	90 lm	95 lm
KY	95 lm	100 lm
KZ	100 lm	105 lm
K1	105 lm	110 lm
K2	110 lm	115 lm
K3	115 lm	120 lm
K4	120 lm	125 lm
K5	125 lm	130 lm
LV	130 lm	135 lm
LW	135 lm	140 lm

Forward Voltage Groups

Group	Forward Voltage [2] min. V_F	Forward Voltage [2] max. V_F
D1	8.40 V	8.60 V
D2	8.60 V	8.80 V
E1	8.80 V	9.00 V
E2	9.00 V	9.20 V
F1	9.20 V	9.40 V
F2	9.40 V	9.60 V
G1	9.60 V	9.80 V

Chromaticity Coordinate Groups [5)]



Chromaticity Coordinate Groups

CCT	Center Cx	Center Cy	3step a	3step b	5step a	5step b	Ø
2200 K	0.5020	0.4156	0.0072	0.0040	0.0120	0.0067	39.9
2700 K	0.4577	0.4098	0.0080	0.0041	0.0133	0.0068	54.1
3000 K	0.4339	0.4032	0.0086	0.0042	0.0142	0.0069	53.7
3500 K	0.4077	0.3929	0.0093	0.0042	0.0155	0.0069	53.9
4000 K	0.3818	0.3796	0.0094	0.0041	0.0157	0.0068	53.4
5000 K	0.3446	0.3551	0.0081	0.0035	0.0135	0.0059	59.8
5700 K	0.3287	0.3425	0.0072	0.0032	0.0119	0.0052	58.8
6500 K	0.3123	0.3282	0.0066	0.0027	0.0110	0.0045	58.1

		1		2		3		4		5	
CCT	Group	Cx	Cy	Cx	Cy	Cx	Cy	Cx	Cy	Cx	Cy
2200 K	A	0.5155	0.4347	0.5044	0.4344	0.4921	0.4156	0.4941	0.4156	0.5088	0.4249
	B	0.5155	0.4347	0.5265	0.4350	0.5132	0.4163	0.5101	0.4161	0.5088	0.4249
	C	0.5132	0.4163	0.4998	0.3975	0.4898	0.3971	0.4955	0.4054	0.5101	0.4161
	D	0.4955	0.4054	0.4941	0.4156	0.4921	0.4156	0.4798	0.3967	0.4898	0.3971
	E	0.5088	0.4249	0.4941	0.4156	0.4973	0.4157	0.5061	0.4210		
	F	0.5088	0.4249	0.5101	0.4161	0.5068	0.4160	0.5061	0.4210		
	G	0.5101	0.4161	0.4955	0.4054	0.4981	0.4093	0.5068	0.4158		
	H	0.4981	0.4093	0.4973	0.4157	0.4941	0.4156	0.4955	0.4054		
2700 K	A	0.4675	0.4285	0.4561	0.4259	0.4467	0.4076	0.4491	0.4081	0.4637	0.4212
	B	0.4675	0.4285	0.4811	0.4315	0.4698	0.4123	0.4663	0.4115	0.4637	0.4212
	C	0.4698	0.4123	0.4591	0.3941	0.4482	0.3917	0.4517	0.3984	0.4663	0.4115
	D	0.4517	0.3984	0.4491	0.4081	0.4467	0.4076	0.4372	0.3892	0.4482	0.3917
	E	0.4637	0.4212	0.4491	0.4081	0.4526	0.4088	0.4613	0.4166		
	F	0.4637	0.4212	0.4663	0.4115	0.4628	0.4108	0.4613	0.4166		
	G	0.4663	0.4115	0.4517	0.3984	0.4541	0.4030	0.4628	0.4108		
	H	0.4541	0.4030	0.4526	0.4088	0.4491	0.4081	0.4517	0.3984		
3000 K	A	0.4418	0.4211	0.4302	0.4171	0.4226	0.3995	0.4246	0.4002	0.4393	0.4153
	B	0.4418	0.4211	0.4561	0.4259	0.4465	0.4073	0.4432	0.4062	0.4393	0.4153
	C	0.4465	0.4073	0.4372	0.3892	0.4261	0.3856	0.4285	0.3911	0.4432	0.4062
	D	0.4285	0.3911	0.4246	0.4002	0.4226	0.3995	0.4149	0.3819	0.4261	0.3856
	E	0.4393	0.4153	0.4246	0.4002	0.4283	0.4014	0.4371	0.4105		
	F	0.4393	0.4153	0.4432	0.4062	0.4395	0.4050	0.4371	0.4105		
	G	0.4432	0.4062	0.4285	0.3911	0.4307	0.3960	0.4395	0.4050		
	H	0.4307	0.3960	0.4283	0.4014	0.4246	0.4002	0.4285	0.3911		
3500 K	A	0.4131	0.4093	0.4003	0.4034	0.3949	0.3871	0.3977	0.3883	0.4118	0.4054
	B	0.4131	0.4093	0.4302	0.4171	0.4227	0.3997	0.4177	0.3975	0.4118	0.4054
	C	0.4227	0.3997	0.4149	0.3819	0.4022	0.3763	0.4036	0.3804	0.4177	0.3975
	D	0.4036	0.3804	0.3977	0.3883	0.3949	0.3871	0.3895	0.3707	0.4022	0.3763
	E	0.4118	0.4054	0.3977	0.3883	0.4017	0.3902	0.4102	0.4004		
	F	0.4118	0.4054	0.4177	0.3975	0.4137	0.3956	0.4102	0.4004		
	G	0.4177	0.3975	0.4036	0.3804	0.4052	0.3854	0.4137	0.3956		
	H	0.4052	0.3854	0.4017	0.3902	0.3977	0.3883	0.4036	0.3804		

4000 K	A	0.3853	0.3947	0.3737	0.3879	0.3704	0.3731	0.3714	0.3737	0.3845	0.3913
	B	0.3853	0.3947	0.4003	0.4034	0.3949	0.3871	0.3922	0.3855	0.3845	0.3913
	C	0.3949	0.3871	0.3895	0.3707	0.3783	0.3645	0.3791	0.3679	0.3922	0.3855
	D	0.3791	0.3679	0.3714	0.3737	0.3704	0.3731	0.3671	0.3583	0.3783	0.3645
	E	0.3845	0.3913	0.3714	0.3737	0.3756	0.3760	0.3834	0.3866		
	F	0.3845	0.3913	0.3922	0.3855	0.3880	0.3832	0.3834	0.3866		
	G	0.3922	0.3855	0.3791	0.3679	0.3802	0.3726	0.3880	0.3832		
	H	0.3802	0.3726	0.3756	0.3760	0.3714	0.3737	0.3791	0.3679		
5000 K	A	0.3452	0.3678	0.3375	0.3619	0.3372	0.3528	0.3451	0.3648		
	B	0.3452	0.3678	0.3550	0.3752	0.3532	0.3614	0.3530	0.3612	0.3451	0.3648
	C	0.3532	0.3614	0.3514	0.3480	0.3440	0.3426	0.3441	0.3454	0.3530	0.3612
	D	0.3441	0.3454	0.3369	0.3445	0.3366	0.3372	0.3440	0.3426		
	E	0.3451	0.3648	0.3372	0.3528	0.3371	0.3496	0.3396	0.3514	0.3449	0.3609
	F	0.3451	0.3648	0.3530	0.3612	0.3496	0.3588	0.3449	0.3609		
	G	0.3530	0.3612	0.3441	0.3454	0.3443	0.3493	0.3496	0.3588		
	H	0.3443	0.3493	0.3396	0.3514	0.3371	0.3496	0.3369	0.3445	0.3441	0.3454
5700 K	A	0.3280	0.3539	0.3205	0.3475	0.3212	0.3373	0.3283	0.3502		
	B	0.3280	0.3539	0.3375	0.3619	0.3370	0.3493	0.3363	0.3486	0.3283	0.3502
	C	0.3370	0.3493	0.3366	0.3372	0.3294	0.3314	0.3291	0.3348	0.3363	0.3486
	D	0.3291	0.3348	0.3215	0.3337	0.3221	0.3255	0.3294	0.3314		
	E	0.3283	0.3502	0.3212	0.3373	0.3213	0.3365	0.3242	0.3388	0.3284	0.3471
	F	0.3283	0.3502	0.3363	0.3486	0.3332	0.3462	0.3284	0.3471		
	G	0.3363	0.3486	0.3291	0.3348	0.3290	0.3379	0.3332	0.3462		
	H	0.3291	0.3348	0.3215	0.3337	0.3213	0.3365	0.3242	0.3388	0.3290	0.3379
6500 K	A	0.3102	0.3379	0.3027	0.3310	0.3047	0.3214	0.3054	0.3220	0.3110	0.3340
	B	0.3102	0.3379	0.3205	0.3475	0.3213	0.3363	0.3192	0.3344	0.3110	0.3340
	C	0.3213	0.3363	0.3221	0.3255	0.3144	0.3187	0.3136	0.3224	0.3192	0.3344
	D	0.3136	0.3224	0.3054	0.3220	0.3047	0.3214	0.3067	0.3118	0.3144	0.3187
	E	0.3110	0.3340	0.3054	0.3220	0.3082	0.3245	0.3115	0.3317		
	F	0.3110	0.3340	0.3192	0.3344	0.3165	0.3319	0.3115	0.3317		
	G	0.3192	0.3344	0.3136	0.3224	0.3131	0.3247	0.3165	0.3319		
	H	0.3136	0.3224	0.3054	0.3220	0.3082	0.3245	0.3131	0.3247		

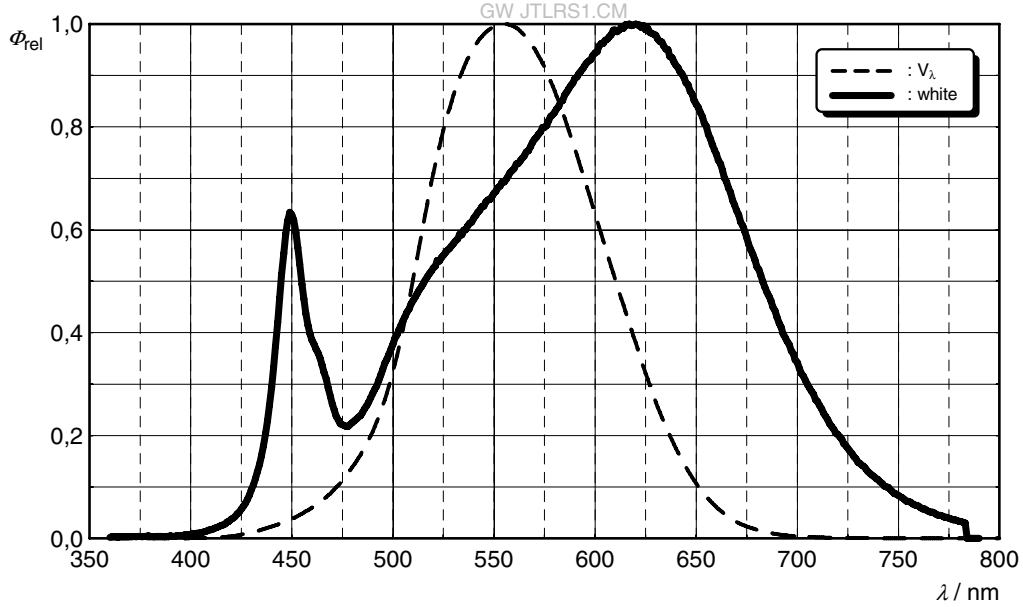
Group Name on Label

Example: K1-31-D1

Brightness	Color Chromaticity	Forward Voltage
K1	31	D1

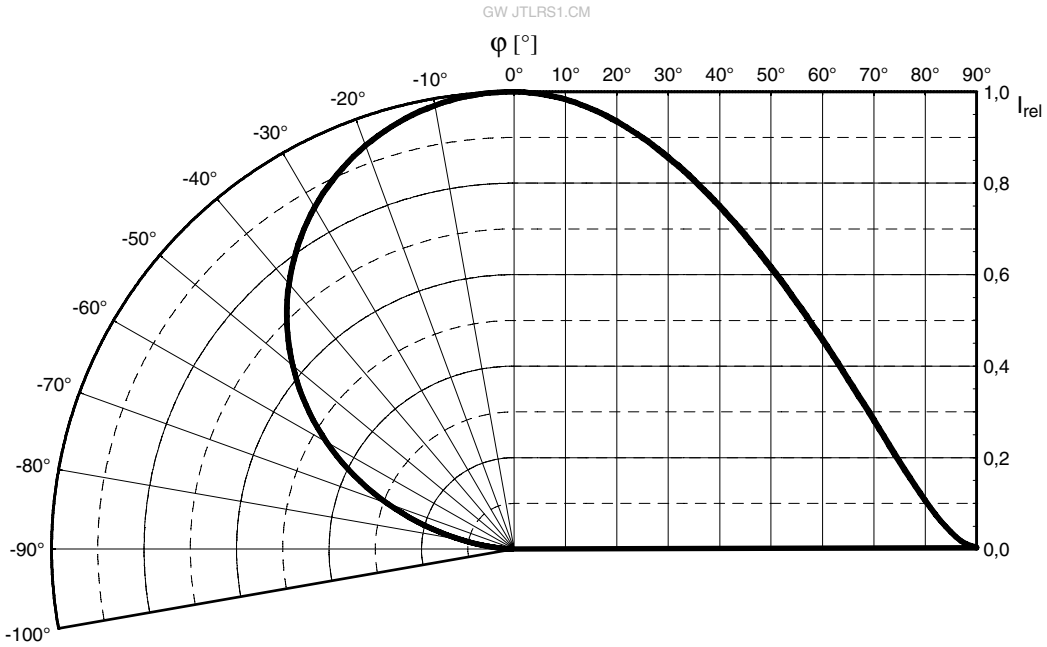
Relative Spectral Emission [6)]

$\Phi_{rel} = f(\lambda)$; I_F = 100 mA; T_J = 25 °C



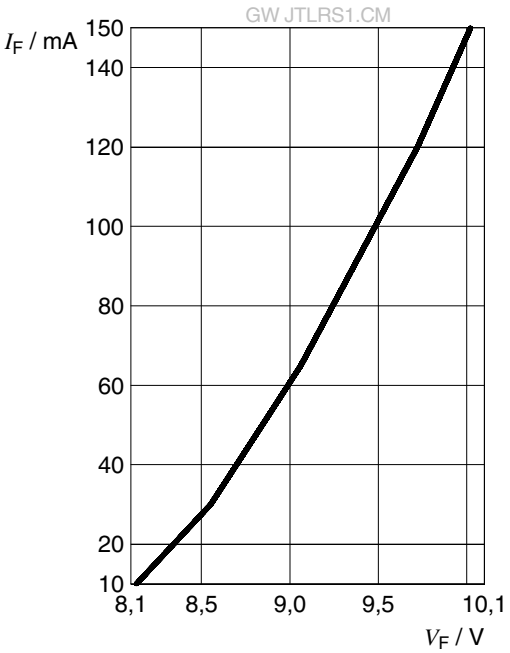
Radiation Characteristics [6)]

$I_{rel} = f(\phi)$; T_J = 25 °C



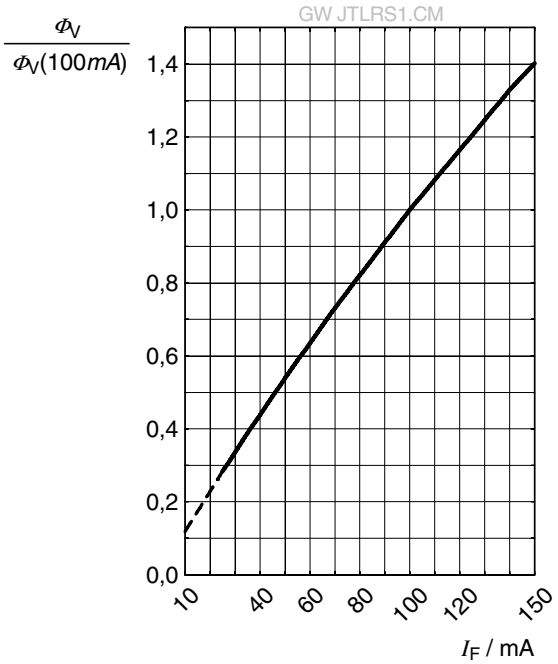
Forward current [6]

$I_F = f(V_F)$; T_J = 25 °C



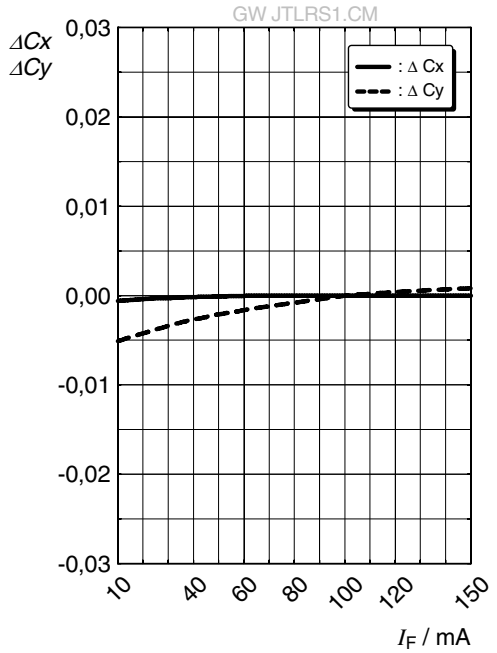
Relative Luminous Flux [6], [7]

$\Phi_v/\Phi_v(100\ mA) = f(I_F)$; T_J = 25 °C



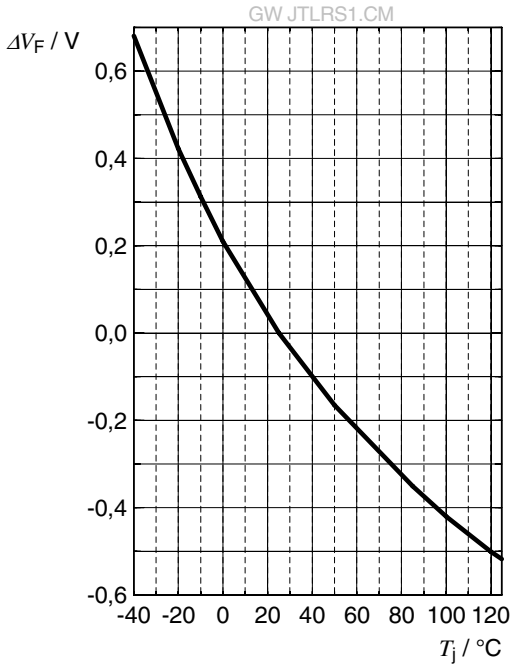
Chromaticity Coordinate Shift [6]

$\Delta Cx, \Delta Cy = f(I_F)$; T_J = 25 °C



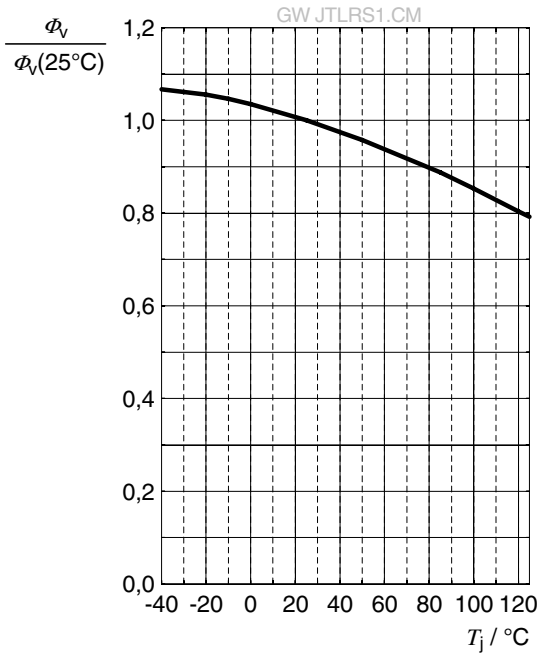
Forward Voltage [6)]

$\Delta V_F = V_F - V_F(25\ °C) = f(T_j);\ I_F = 100\ mA$



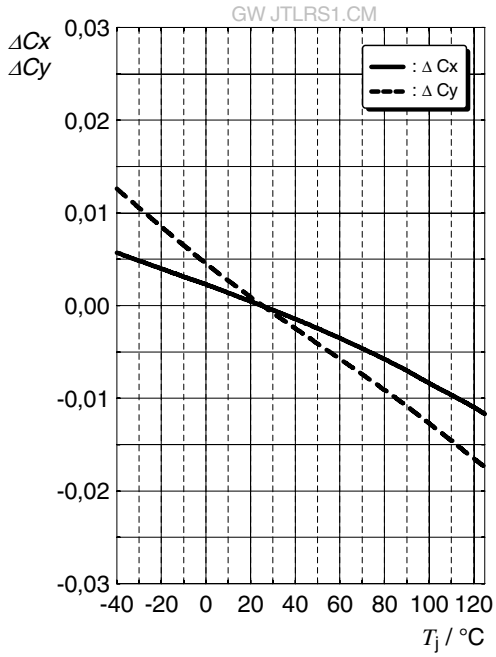
Relative Luminous Flux [6)]

$\Phi_v/\Phi_v(25\ °C) = f(T_j);\ I_F = 100\ mA$



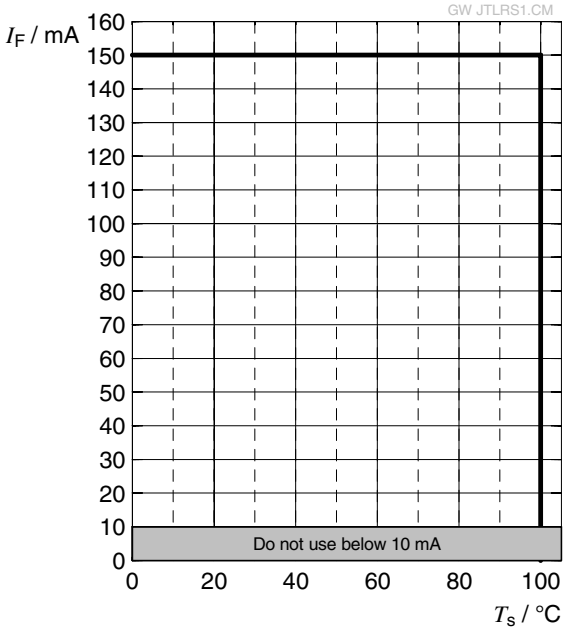
Chromaticity Coordinate Shift [6)]

$\Delta Cx, \Delta Cy = f(T_j);\ I_F = 100\ mA$

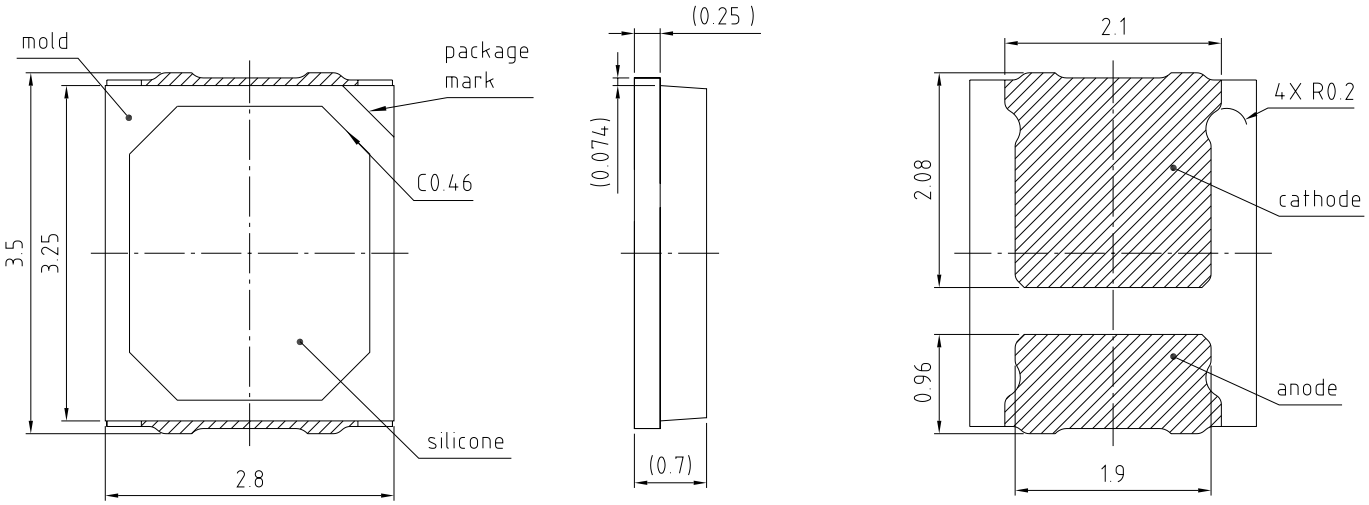


Max. Permissible Forward Current

$I_F = f(T)$



Dimensional Drawing [8)]



general tolerance ±0.1

lead finish Ag

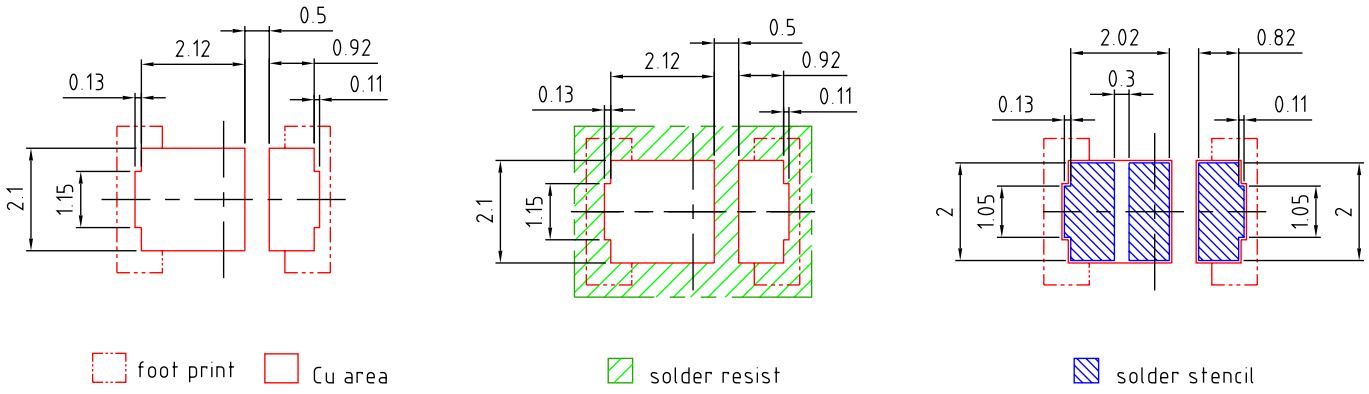
C67062-A0284-A1..-02

Further Information:

Approximate Weight: 20.0 mg

Package marking: Cathode

Recommended Solder Pad [8)]

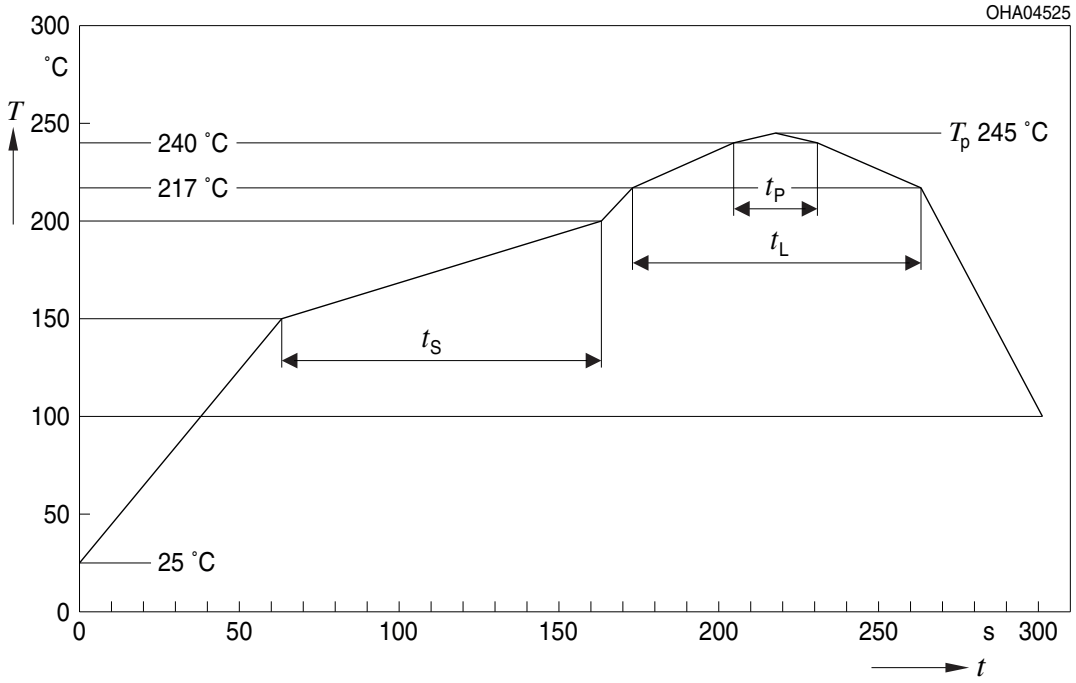


E067.0346.04-01

For superior solder joint connectivity results we recommend soldering under standard nitrogen atmosphere. Package not suitable for ultra sonic cleaning.

Reflow Soldering Profile

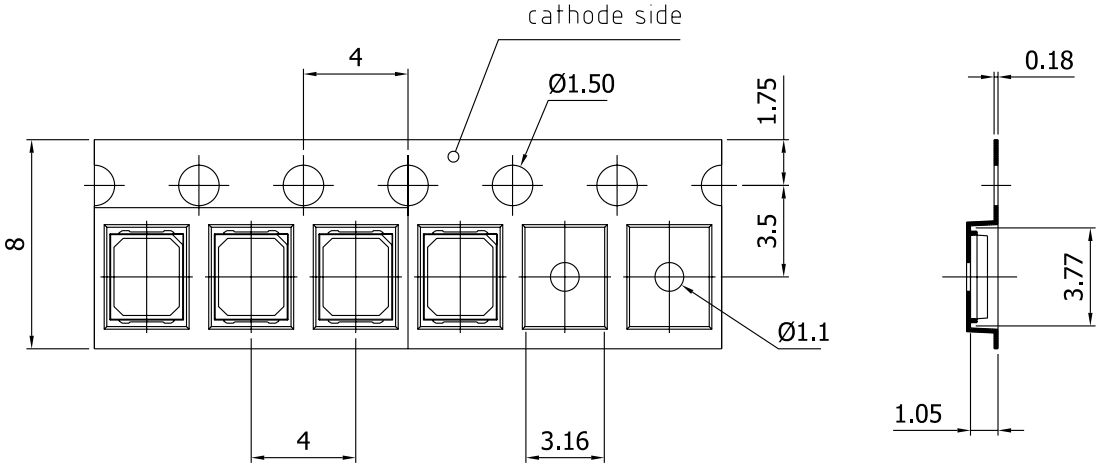
Product complies to MSL Level 3 acc. to JEDEC J-STD-020E



Profile Feature	Symbol	Pb-Free (SnAgCu) Assembly			Unit
		Minimum	Recommendation	Maximum	
Ramp-up rate to preheat*) 25 °C to 150 °C			2	3	K/s
Time t_S T_{Smin} to T_{Smax}	t_S	60	100	120	s
Ramp-up rate to peak*) T_{Smax} to T_P			2	3	K/s
Liquidus temperature	T_L		217		°C
Time above liquidus temperature	t_L		80	100	s
Peak temperature	T_P		245	260	°C
Time within 5 °C of the specified peak temperature T_P - 5 K	t_P	10	20	30	s
Ramp-down rate* T_P to 100 °C			3	6	K/s
Time 25 °C to T_P				480	s

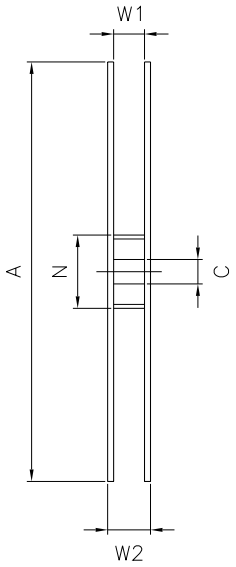
All temperatures refer to the center of the package, measured on the top of the component
* slope calculation DT/Dt: Dt max. 5 s; fulfillment for the whole T-range

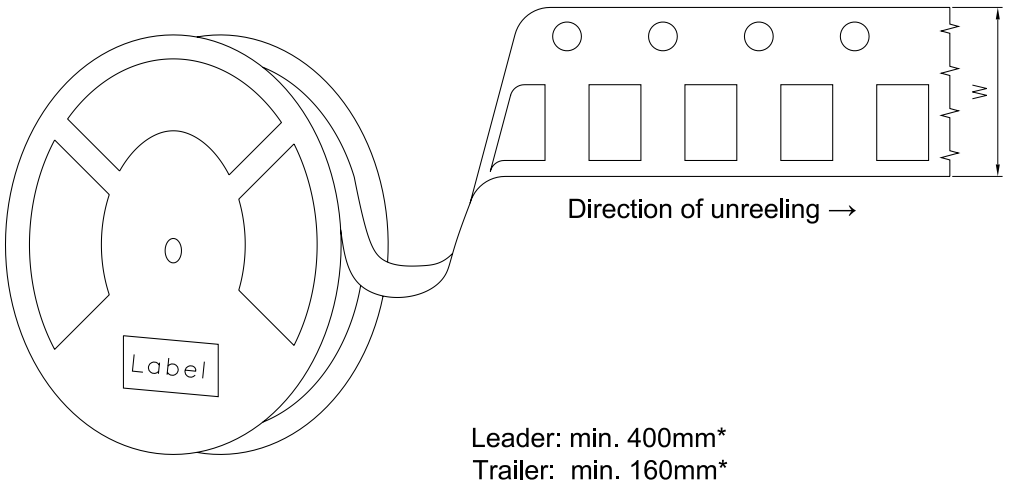
Taping [8)]



C67062-A0204-B9-01

Tape and Reel [9)]



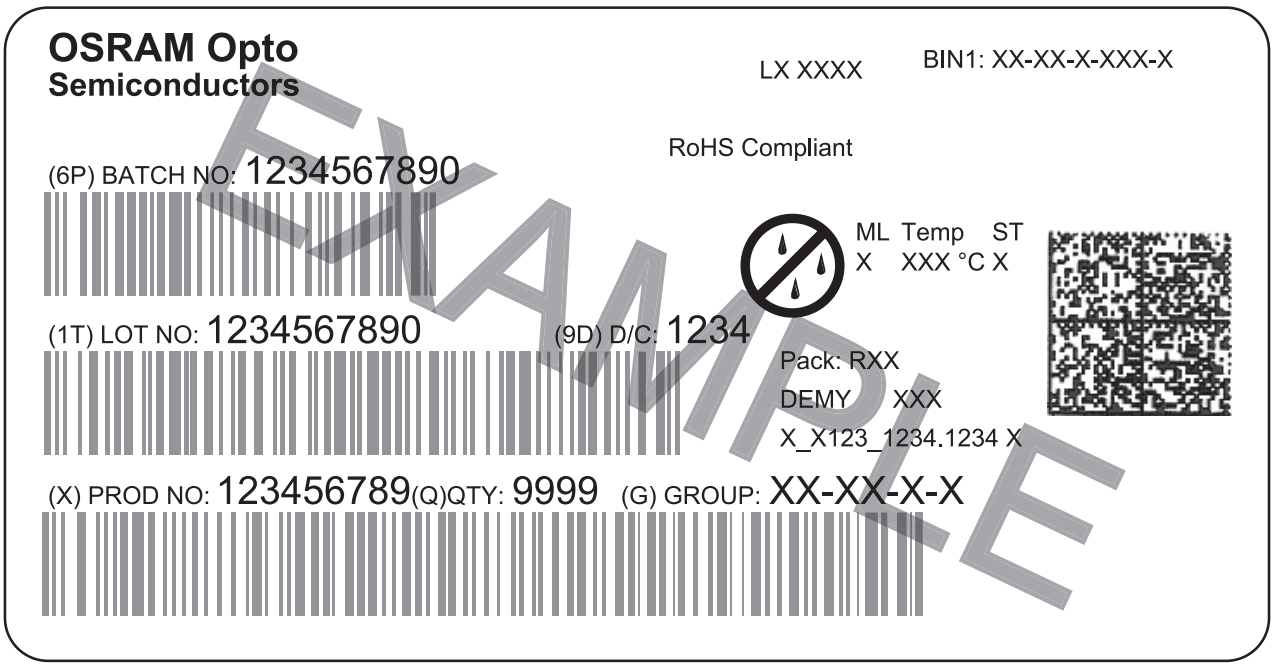


Leader: min. 400mm*
Trailer: min. 160mm*
*)Dimensions acc. to IEC 60286-3; EIA 481-E

Reel Dimensions

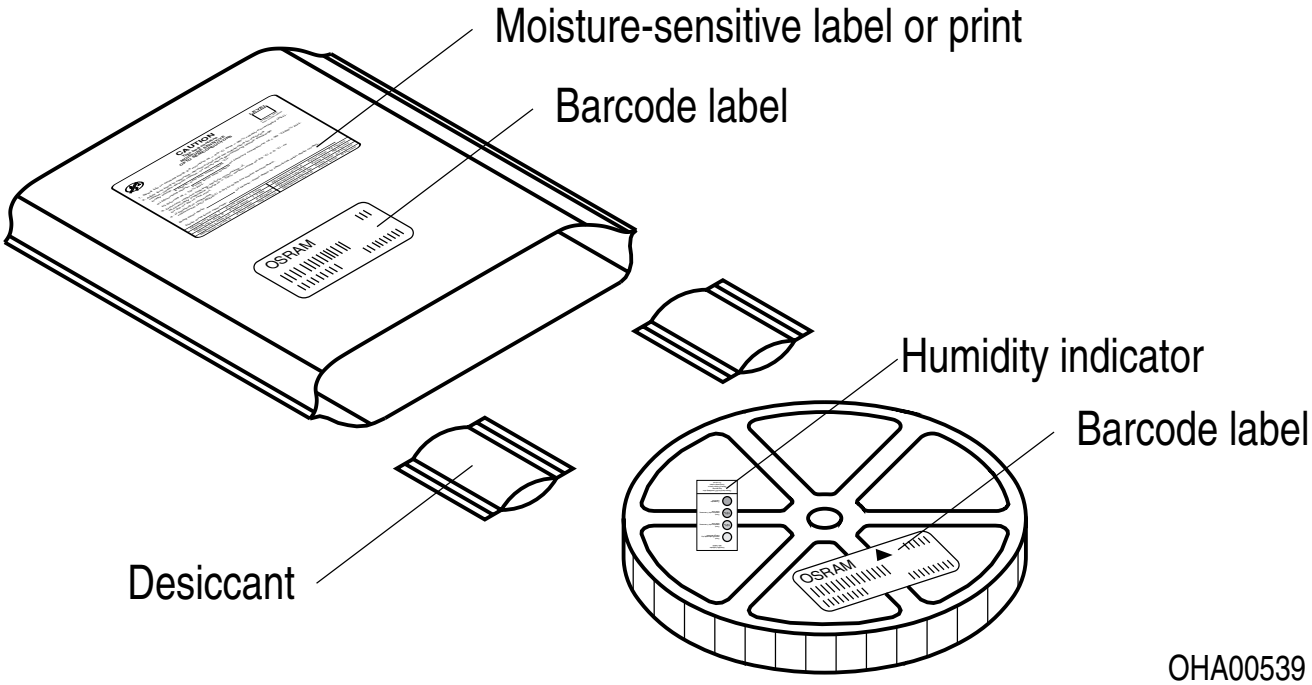
A	W	N_{min}	W_1	$W_{2\,max}$	Pieces per PU
330 mm	8 + 0.3 / - 0.1 mm	60 mm	8.4 + 2 mm	14.4 mm	10000

Barcode-Product-Label (BPL)



OHA04563

Dry Packing Process and Materials



OHA00539

Moisture-sensitive product is packed in a dry bag containing desiccant and a humidity card according JEDEC-STD-033.

Notes

The evaluation of eye safety occurs according to the standard IEC 62471:2006 (photo biological safety of lamps and lamp systems). Within the risk grouping system of this IEC standard, the device specified in this data sheet falls into the class **low risk (exposure time 100 s)**. Under real circumstances (for exposure time, conditions of the eye pupils, observation distance), it is assumed that no endangerment to the eye exists from these devices. As a matter of principle, however, it should be mentioned that intense light sources have a high secondary exposure potential due to their blinding effect. When looking at bright light sources (e.g. headlights), temporary reduction in visual acuity and afterimages can occur, leading to irritation, annoyance, visual impairment, and even accidents, depending on the situation.

Subcomponents of this device contain, in addition to other substances, metal filled materials including silver. Metal filled materials can be affected by environments that contain traces of aggressive substances. Therefore, we recommend that customers minimize device exposure to aggressive substances during storage, production, and use. Devices that showed visible discoloration when tested using the described tests above did show no performance deviations within failure limits during the stated test duration. Respective failure limits are described in the IEC60810.

This device is designed for specific/recommended applications only. Please consult OSRAM Opto Semiconductors Sales Staff in advance for detailed information on other non-recommended applications (e.g. automotive).

Change management for this component is aligned with the requirements of the lighting market.

For further application related information please visit www.osram-os.com/appnotes

Disclaimer

Attention please!
The information describes the type of component and shall not be considered as assured characteristics.
Terms of delivery and rights to change design reserved. Due to technical requirements components may contain dangerous substances.
For information on the types in question please contact our Sales Organization.
If printed or downloaded, please find the latest version on the OSRAM OS website.

Packing
Please use the recycling operators known to you. We can also help you – get in touch with your nearest sales office. By agreement we will take packing material back, if it is sorted. You must bear the costs of transport. For packing material that is returned to us unsorted or which we are not obliged to accept, we shall have to invoice you for any costs incurred.

Product and functional safety devices/applications or medical devices/applications
OSRAM OS components are not developed, constructed or tested for the application as safety relevant component or for the application in medical devices.
OSRAM OS products are not qualified at module and system level for such application.

In case buyer – or customer supplied by buyer – considers using OSRAM OS components in product safety devices/applications or medical devices/applications, buyer and/or customer has to inform the local sales partner of OSRAM OS immediately and OSRAM OS and buyer and /or customer will analyze and coordinate the customer-specific request between OSRAM OS and buyer and/or customer.

Glossary

1) **Brightness:** Brightness values are measured during a current pulse of typically 10 ms, with a tolerance of +/- 7%.

2) **Forward Voltage:** The Forward voltage is measured during a current pulse duration of typically 1 ms with a tolerance of ± 0.05V .

3) **Reverse Operation:** Not designed for reverse operation. Continuous reverse operation can cause migration and damage of the device.

4) **Color reproduction index:** Color reproduction index values (CRI-RA) are measured during a current pulse of typically 10 ms and with a tolerance of ±2.

5) **Chromaticity coordinate groups:** Chromaticity coordinates are measured during a current pulse of typically 25 ms, with an internal reproducibility of ±0.005 and an expanded uncertainty of ±0.01 (acc. to GUM with a coverage factor of k = 3).

6) **Typical Values:** Due to the special conditions of the manufacturing processes of semiconductor devices, the typical data or calculated correlations of technical parameters can only reflect statistical figures. These do not necessarily correspond to the actual parameters of each single product, which could differ from the typical data and calculated correlations or the typical characteristic line. If requested, e.g. because of technical improvements, these typ. data will be changed without any further notice.

7) **Characteristic curve:** In the range where the line of the graph is broken, you must expect higher differences between single devices within one packing unit.

8) **Tolerance of Measure:** Unless otherwise noted in drawing, tolerances are specified with ±0.1 and dimensions are specified in mm.

9) **Tape and Reel:** All dimensions and tolerances are specified acc. IEC 60286-3 and specified in mm.

Revision History

Version	Date	Change
1.3	2019-11-01	New Layout Schematic Transportation Box Dimensions of Transportation Box
1.4	2020-04-02	Features Ordering Information Electro - Optical Characteristics (Diagrams) Dimensional Drawing

Published by OSRAM Opto Semiconductors GmbH
Leibnizstraße 4, D-93055 Regensburg

EU RoHS and China RoHS compliant product

此产品符合欧盟 RoHS 指令的要求；
按照中国的相关法规和标准，不含有毒有害物质或元素。

Light is OSRAM

IT FIT 60 / 220 – 240 / 1A2 CS L

Constant Current LED Power Supply

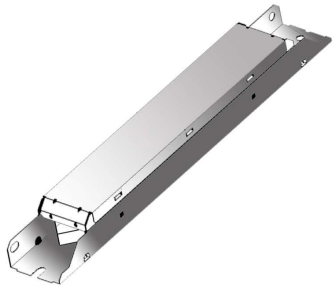
900mA - 1050mA - 1100mA- 1200mA

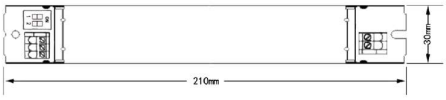
Preliminary

ICUTRONIC® LED Power Supply is the reliable choice for linear and area fixtures for office - industrial - shop lighting

Benefits

Flexible with 1 driver offers 4 output currents;
High quality light with very low ripple;
Very high efficiency up to 86%
Enable slim fixture design with flat 21mm height metal housing
Long lasting and high reliability
SELV driver





Applications

Linear and area lighting
Office – industrial - shop

Approbations & Certifications

CE, ENEC, CCC
In preparation, if not already printed on the label

Product Features

- Output current: 900/1050/1100/1200mA
- Low THD < 15% @ full load
- Output power : 20.7W – 64.8W
- Input voltage: 220 – 240V_{AC}
- Ambient temp range ta : -25 to +50°C
- Wide output voltage range
- Low ripple < 5%
- Very high efficiency up to 87%
- Fixed output (no dimming)
- 5 years guarantee

	Item	Value	Unit	Remarks
INPUT	Nominal voltage	220 – 240	V	
	Nominal frequency	50 / 60	Hz	
	AC voltage range	198 – 264	V	
	DC voltage range	NA	V	
	Maximum voltage	300	Vac	2 h maximum, unit might not operate in this abnormal condition
	Nominal current	340	mA	230V, Refer to Table 1 for details
	Total Harmonic Distortion (THD)	< 15	%	Full load
	Power factor	≥ 0.98		Full load, 220 – 240 V, 50 Hz / see graphs
	Efficiency	87	%	Full load, 220 – 240 V, 50 Hz / see graphs
	Stand-by power	TBC	W	
	Power loss	8.35	W	At 230V, Input power 47W max. Refer to Table 1 for details
	Protection class	I/II		
	Inrush current	13.6	A	t_{width} = 220 µs typical (measured at 50% Ipeak)
	Max. units per circuit breaker	B16:21 B10:13 C16:33 C10:21		
OUTPUT	Nominal voltage range	23-54	V	@ 500/600/700/800mA output current, Refer to Table 1 for details
	Maximum voltage	< 60	Vdc	w/ Open Circuit
	Nominal current range	900/1050 1100/ 1200	mA	
	Current accuracy	+/- 7.5	%	
	Current ripple 100Hz	< 5	%	
	Nominal power range	20.7-64.8	W	Partial Load. Refer to Table 1 for details
	Maximum power	64.8	W	
	Galvanic isolation	SELV		
DALI / Dimming	Dimming control	No		
	Dimming method	NA		
	Dimming range	NA	%	
	Dimming Standard	NA		
	Galvanic isolation	SELV		
ENVIRONMENT	Ambient temperature range t_a	-25 …+50	°C	
	Maximum case temperature t_c	75	°C	Measured on t_c point indicated of the product label
	Max. case temp. in fault condition	110	°C	
	Storage temperature range	-25 …+80	°C	
	Relative humidity	5 ... 85	%	Not condensing
	Surge transient protection	1 | 2	kV	L/N | LN/PE acc to. EN 61547 Clause 5.7
	Environmental rating	Indoor		
	IP rating	IP 20		
	Mains switching cycles	> 100'000		
	Expected lifetime	50'000	h	t_{cmax} = 75°C, 10% failure rate

Protections

Over temperature

Automatic, reversible

Overload

Automatic, reversible

Short-circuit

Automatic, reversible

No load, Yes

Input overvoltage

Maximum allowed input voltage 300V AC/ 1hr

Output overvoltage

Yes, Limitation of Output voltage < 250Vrms

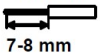
Output under voltage

NA

Wiring Diagram

Terminal:	Push in terminals
Max. cable length :	2 m
Geometry (l x b x h):	210 x 30 x 21 mm
Weight:	
139.5g	

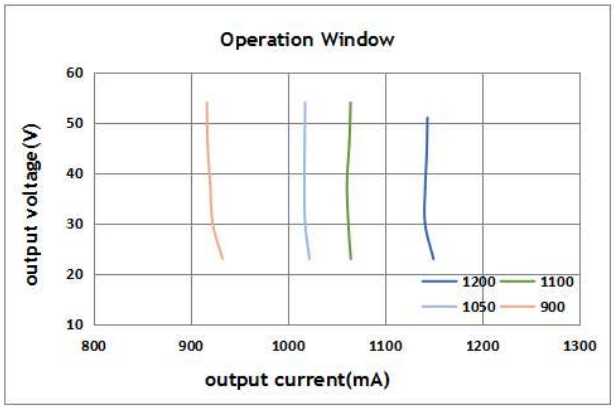
Wire preparation:
Push in
s:0.5-1.5
f:0.75-1.5



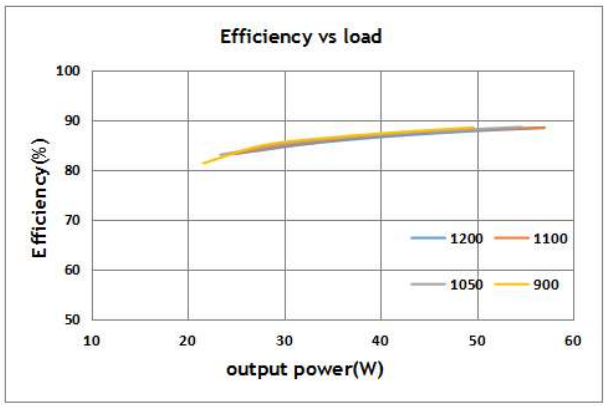
7-8 mm

Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs. Indication that the lamp controlgear relies upon the luminaire enclosure for protection against accidental contact with live part

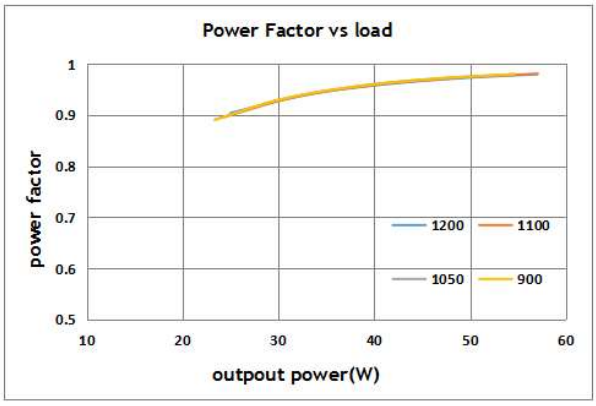
Typical Operating window



Typical Efficiency over load



Typical Power factor over load



Typical THD over load

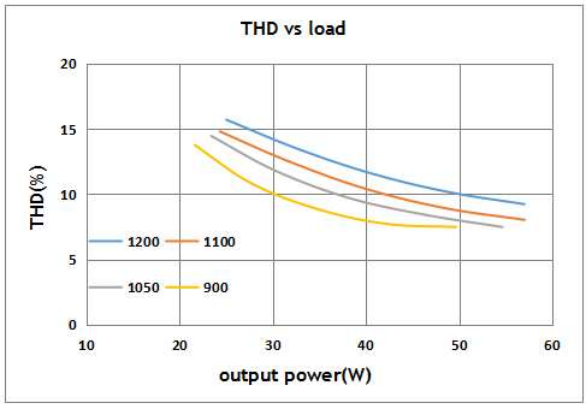


Table 1 - Rated output power and current sets				
Iout (mA)	**900**	**1050**	**1100**	**1200**
U min [V]	23	23	23	23
U max [V]	54	54	54	51
P min [W]	20.7	24.15	25.3	27.6
P max [W]	48.6	56.7	59.4	61.2
Ta [°C]	50	50	50	50
Tc [°C]	75	75	75	75
Line Current, nominal@230V	270	315	330	340
Max Power Loss@230V [W]	7.91	9.23	8.88	8.35
Input Power @230V [W]	56.51	65.93	68.28	69.55

PIN1	PIN2	Irated[mA]
OFF	**OFF**	**900**
OFF	**ON**	**1050**
ON	**OFF**	**1100**
ON	**ON**	**1200**

Current selection by DIP-switch

Standards

Safety: IEC 61347-1, IEC 61347-2-13

Performance: IEC 62384

Harmonic content: IEC 61000-3-2

Immunity: IEC 61000-3-3

IEC 61547

Product name	EAN10	EAN40	Pieces / box
IT FIT 60 / 220 – 240 / 1A2 CS L	4052899617407	4052899617865	20

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OSRAM

Version: Preliminary – Dec 2019