МОЩНЫЙ СВЕТОДИОД ARPL-10W-BCA-2020-DW

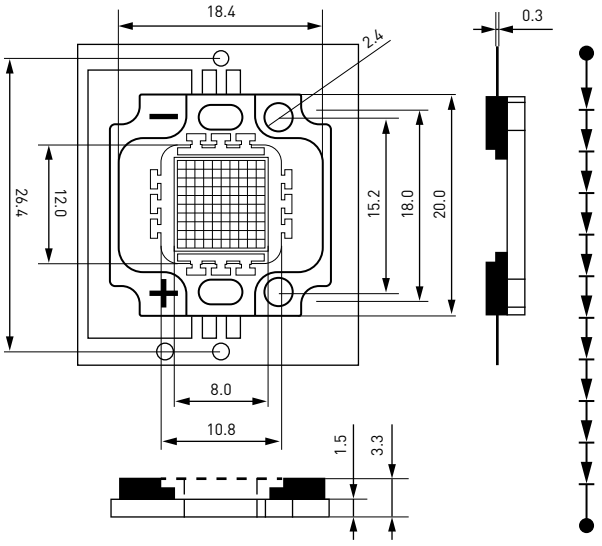
ОСОБЕННОСТИ

- Длительный срок службы
- Низкое напряжение
- 100лм/Вт

ПРИМЕНЕНИЕ

- Прожектор
- Освещение в тоннеле

ГАБАРИТНЫЕ РАЗМЕРЫ



Notes: All dimensions in mm tolerance is ±0.1mm unless otherwise noted.

ПАРАМЕТРЫ

ABSOLUTE MAXIMUM RATINGS (T_A=25 °C)

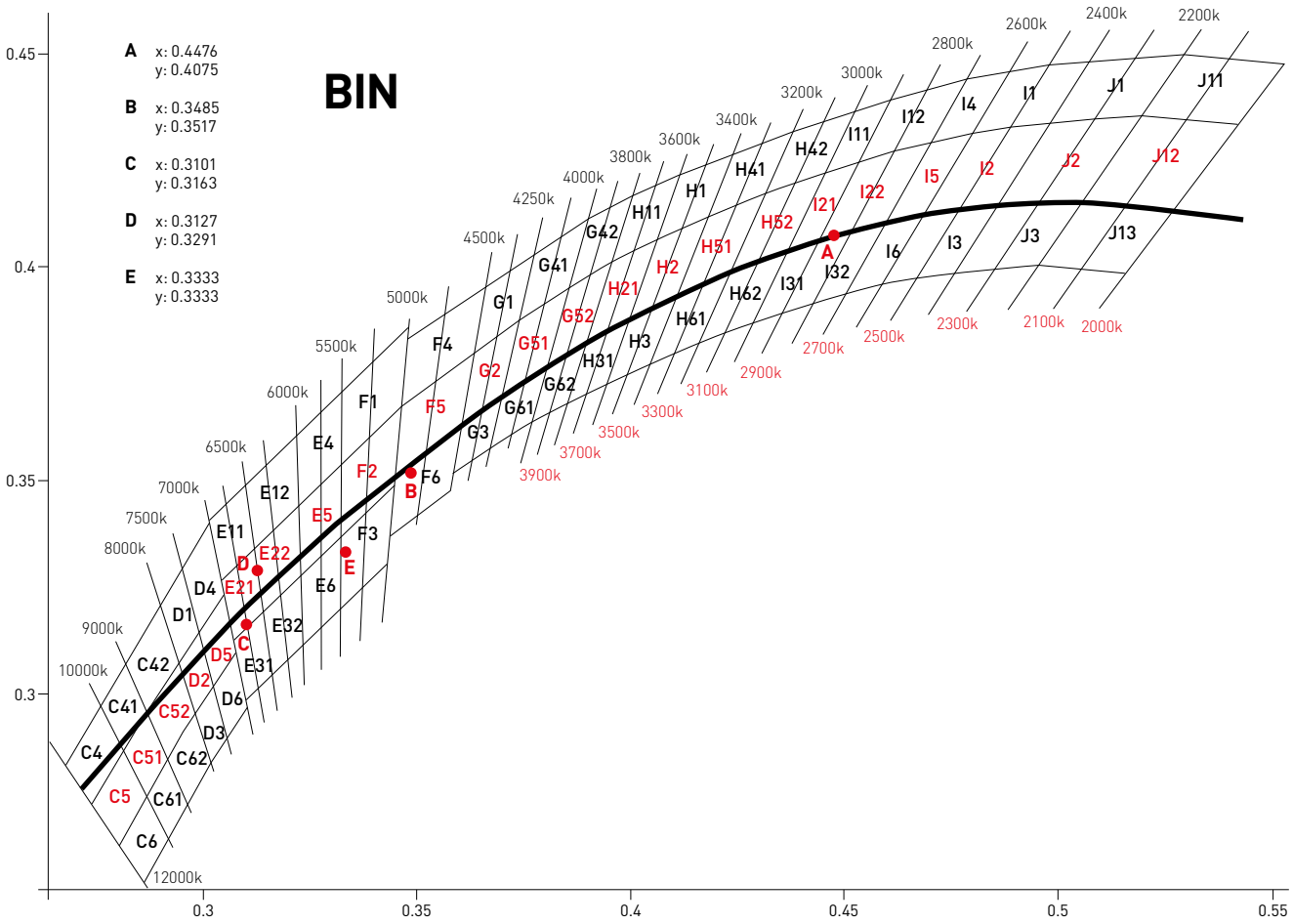
Parameter	Symbol	Rating
DC Forward Current	I_F	**350 mA**
Peak pulse Current*	I_{FP}	**500 mA**
Reverse Voltage	Vr	**50 В**
Power Dissipation	P	**10 W**
Operating Temperature Range	Topr	**-30... 75 °C**
Storage Temperature Range	Tstg	**-40... 85 °C**
LED Junction Temperature	T_J	**115 °C**

* Notes: 1. 1/10 Duty Cycle 0.1ms Pulse Width.

ELECTRICAL/OPTICAL CHARACTERISTICS WHITE (AT T_A=25 °C)

Parameter	Symb.	Min	Avg.	Max	Conditions
Forward Voltage	V_F	**30V**		**34V**	
Thermal Resistance Junction To Board	$R\Theta_{J-B}$		**8°C/W**		
Luminous Flux	Φ_V	**1000lm**		**1000lm**	
Color Temperature	CCT	**4000K**		**4500K**	I_F=350mA
CRI	Ra	**65**			
Temperature Coefficient of Forward Voltage	$\Delta V_F/\Delta T$		**-2mV/°C**		
Viewing Angle	2θ ½		**120°**		
Reverse Current	I_R			**10μA**	V_R=25V

ГРУППИРОВКА ПО СВЕТОВЫМ ХАРАКТЕРИСТИКАМ



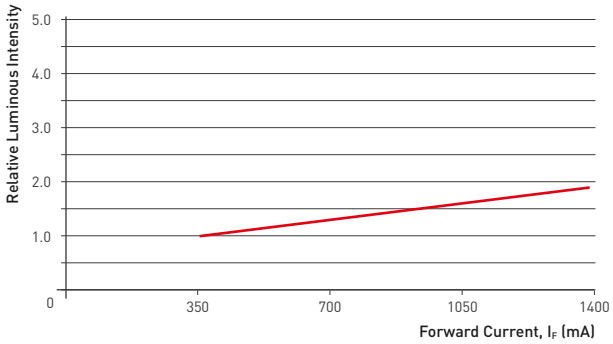
ГРУППИРОВКА ПО СВЕТОВЫМ ХАРАКТЕРИСТИКАМ

J12 2000-2200K	0.5195	0.4355	J2 2200-2400K	0.4981	0.4340	I2 2400-2600K	0.4798	0.4315
	0.5420	0.4335		0.5195	0.4355		0.4982	0.4340
	0.5267	0.4134		0.5055	0.4153		0.4859	4147
	0.5055	0.4153		0.4859	0.4147		0.4684	0.4123
I5 2600-2700K	0.4703	0.4295	I22 2700-2900K	0.4535	0.4249	I21 2900-3000K	0.4454	0.4222
	0.4789	0.4315		0.4703	0.4295		0.4535	0.4249
	0.4684	0.4123		0.4596	0.4104		0.4440	0.4061
	0.4596	0.4104		0.4440	0.4061		0.4367	0.4040
H52 3000-3200K	0.4316	0.4174	H51 3200-3400K	0.4179	0.4113	H2 3400-3600K	0.4060	0.4059
	0.4454	0.4222		0.4316	0.4174		0.4179	0.4113
	0.4367	0.4040		0.4233	0.3989		0.4108	0.3934
	0.4233	0.3989		0.4108	0.3934		0.3996	0.3878
H21 3600-3800K	0.3955	0.4012	G52 3800-4000K	0.3854	0.3949	G51 4000-4250K	0.3739	0.3877
	0.4060	0.4059		0.3955	0.4012		0.3854	0.3949
	0.3996	0.3878		0.3896	0.3822		0.3804	0.3768
	0.3896	0.3822		0.3804	0.3768		0.3699	0.3697
G2 4250-4500K	0.3635	0.3799	F5 4500-5000K	0.3464	0.3676	F2 5000-5500K	0.3324	0.3539
	0.3739	0.3877		0.3635	0.3799		0.3464	0.3676
	0.3699	0.3697		0.3606	0.3634		0.3448	0.3492
	0.3606	0.3634		0.3450	0.3515		0.3323	0.3370
E5 5500-6000K	0.3224	0.3442	E22 6000-6500K	0.3120	0.3341	E21 6500-7000K	0.3042	0.3265
	0.3324	0.3539		0.3224	0.3442		0.3120	0.3341
	0.3323	0.3370		0.3229	0.3279		0.3141	0.3193
	0.3229	0.3279		0.3141	0.3193		0.3071	0.3125
D5 7000-7500K	0.2991	0.3144	D2 7500-8000K	0.2944	0.3071	C52 8000-9000K	0.2868	0.2955
	0.3049	0.3232		0.2991	0.3144		0.2944	0.3071
	0.3077	0.3096		0.3025	0.3018		0.2981	0.2955
	0.3025	0.3018		0.2981	0.2955			0.2846
C51 9000-10000K	0.2815	0.2868	C51 10000-12000K	0.2740	0.2742			
	0.2868	0.2955		0.2815	0.2868			
	0.2916	0.2846		0.2869	0.2761			
		0.2761			0.2645			

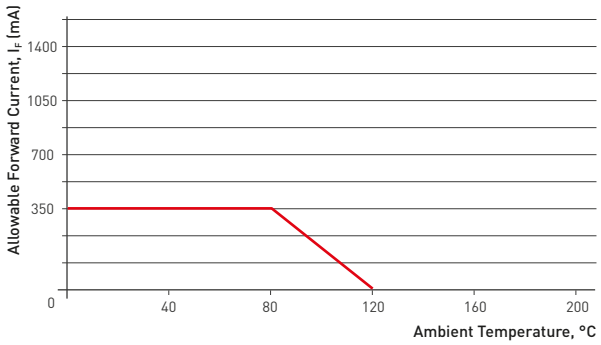
ТИПОВЫЕ ЗАВИСИМОСТИ ЭЛЕКТРООПТИЧЕСКИХ ХАРАКТЕРИСТИК

T_A=25 °C Unless Otherwise Noted

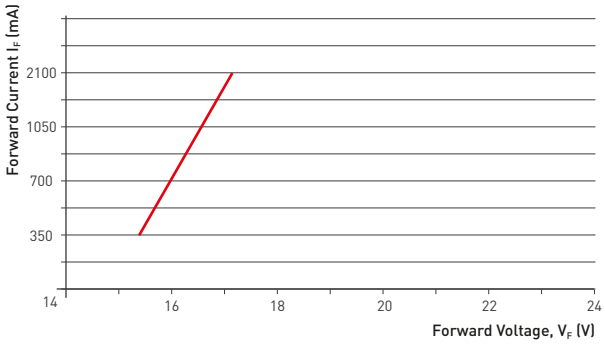
Relative Luminous Intensity - I_F



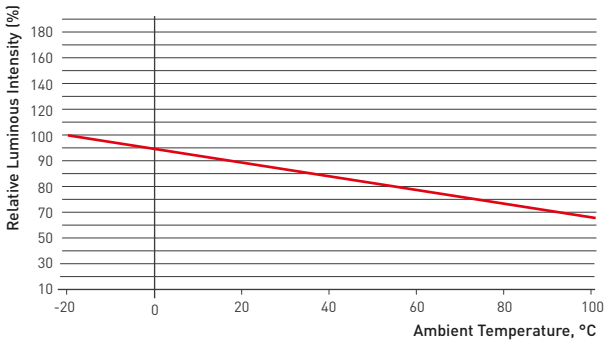
Allowable Forward Current - T_A



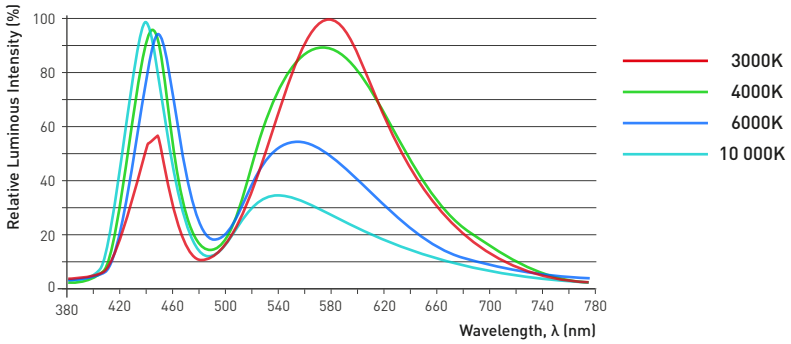
I_F - V_F



Relative Luminous Intensity - T_A



Wavelength Characteristics



ИСПЫТАНИЯ НА НАДЕЖНОСТЬ

Test Item	REF. Standard	Test condition	Duration	Sample count	Accept
Temperature Cycle	**JESD22-A104-A**	**-40...25...100...25 °C 30, 5, 30, 5 min**	**100 100 cycles**	**22**	**0/22**
Thermal shock	**J ESD22-A106**	**-40...100 °C 30, 30 min**	**100 100 cycles**	**22**	**0/22**
High Temperature Storage	**JEITA ED-4701 200 201**	**T_A=100±5 °C**	**1000 Hrs**	**22**	**0/22**
Low Temperature Storage	**JEITA ED-4701 200 202**	**T_A=40±5 °C**	**1000 Hrs**	**22**	**0/22**
Humidity Heat Storage	**JISC 7021 (1977)8-11**	**T_A=60 °C RH=85%**	**1000 Hrs**	**22**	**0/22**
Life test	**JESD22-A108-A**	**T_A=25 °C I_F=350mA**	**1000 Hrs**	**22**	**0/22**
High humidity Heat life test	**JESD22-A101**	**T_A=60 °C RH=85% I_F=350mA**	**1000 Hrs**	**22**	**0/22**
Resistance to soldering Heat	**JESD22-A113**	**I_R soldering 245°C/10 sec**	**1 time**	**22**	**0/22**

УПАКОВКА

Normal packing weight: 0.005kg/pcs , 0.141 kg/a carton 0.005kg/pcs, 0.141kg