

МОЩНЫЙ СВЕТОДИОД ARPL-10W-BCA-2020-DW

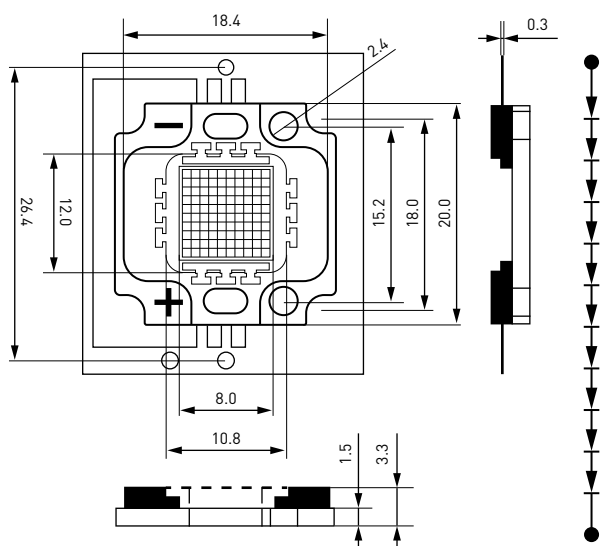
ОСОБЕННОСТИ

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

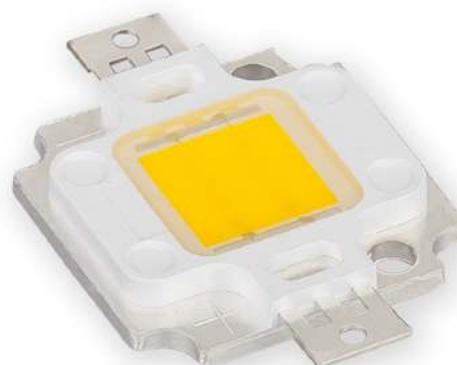
ПРИМЕНЕНИЕ

- Прожектор
- Освещение в тоннеле

ГАБАРИТНЫЕ РАЗМЕРЫ



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



ПАРАМЕТРЫ

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$)

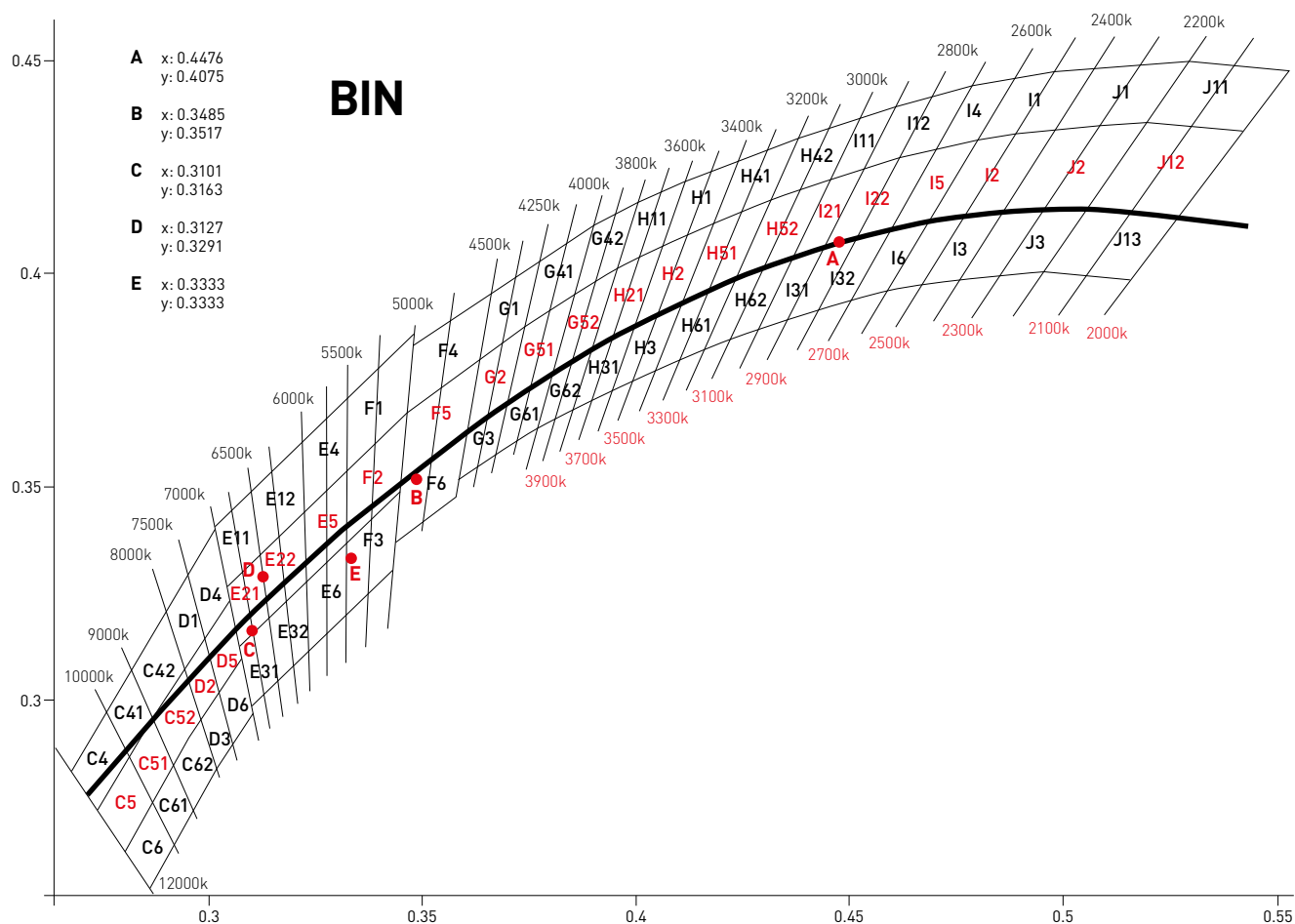
Parameter	Symbol	Rating
DC Forward Current	I_F	350 mA
Peak pulse Current*	I_{FP}	500 mA
Reverse Voltage	V_R	50 V
Power Dissipation	P	10 W
Operating Temperature Range	T_{opr}	$-30 \dots 75^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-40 \dots 85^\circ\text{C}$
LED Junction Temperature	T_J	115°C

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

ELECTRICAL/OPTICAL CHARACTERISTICS WHITE (AT $T_A = 25^\circ\text{C}$)

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	$I_F = 350\text{mA}$
CRI	R_a	65			
Temperature Coefficient of Forward Voltage	$\Delta V_F / \Delta T$		$-2\text{mV}/^\circ\text{C}$		
Viewing Angle	$2\theta_{1/2}$		120°		
Reverse Current	I_R			$10\mu\text{A}$	$V_R = 25\text{V}$

ГРУППИРОВКА ПО СВЕТОВЫМ ХАРАКТЕРИСТИКАМ

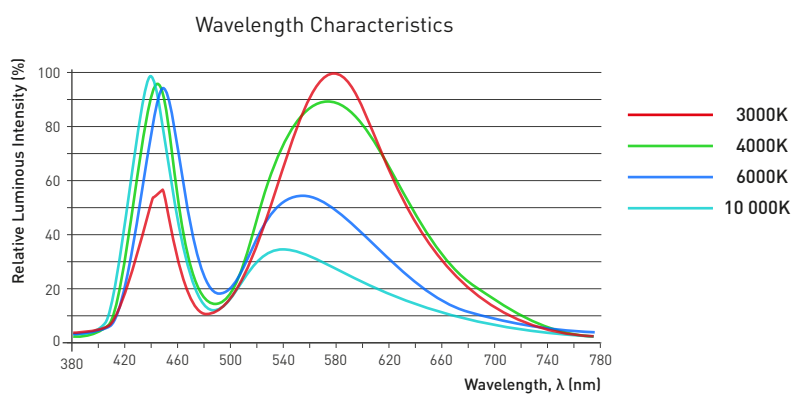
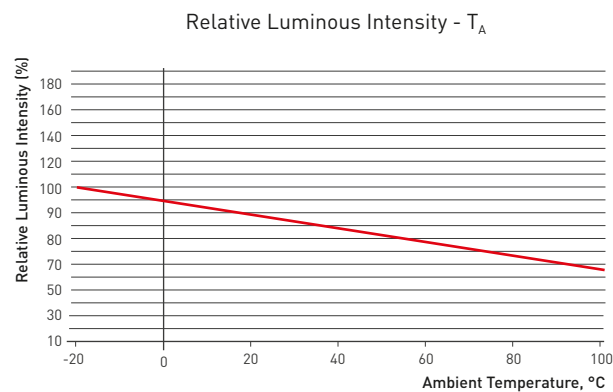
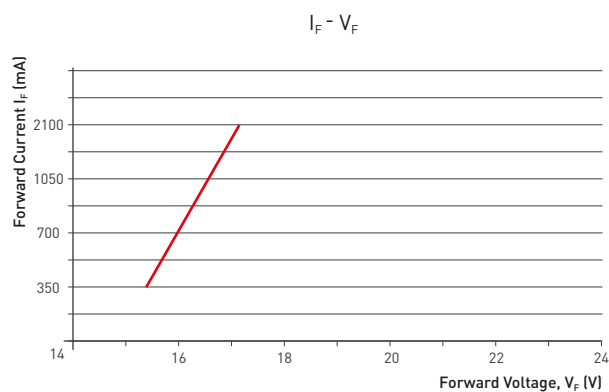
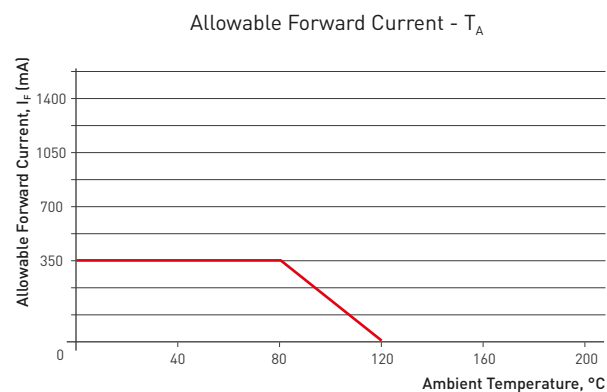
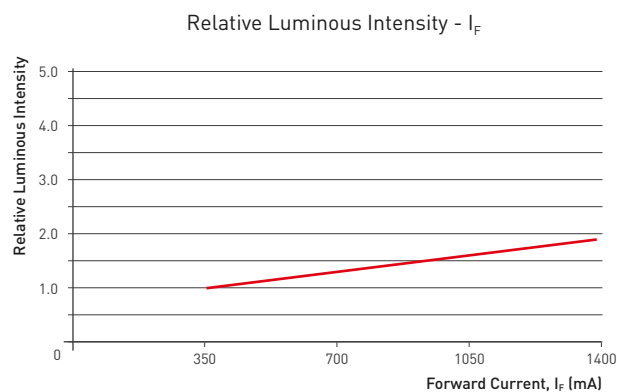


ГРУППИРОВКА ПО СВЕТОВЫМ ХАРАКТЕРИСТИКАМ

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	0.4147
	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

$T_A = 25^\circ\text{C}$ Unless Otherwise Noted



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

