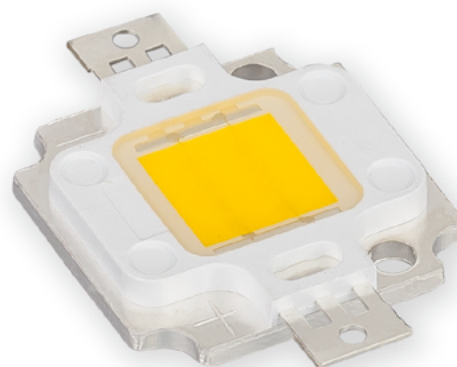


# МОЩНЫЙ СВЕТОДИОД ARPL-10W-BCA-2020-DW



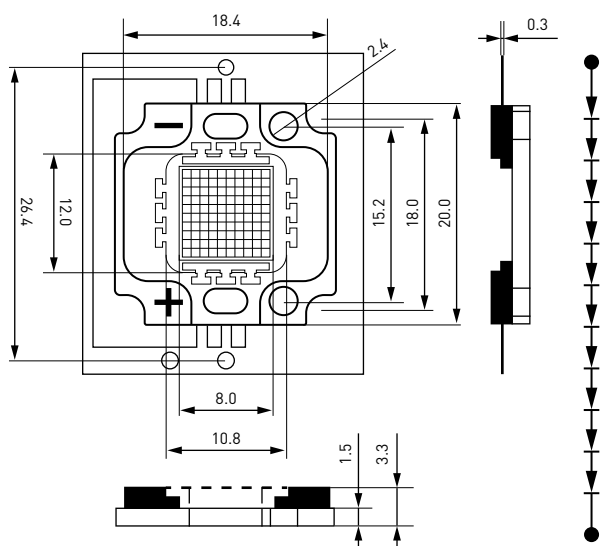
## ОСОБЕННОСТИ

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

## ПРИМЕНЕНИЕ

- Прожектор
- Освещение в тоннеле

## ГАБАРИТНЫЕ РАЗМЕРЫ



Notes: All dimensions in mm tolerance is  $\pm 0.1$ mm unless otherwise noted.

## ПАРАМЕТРЫ

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

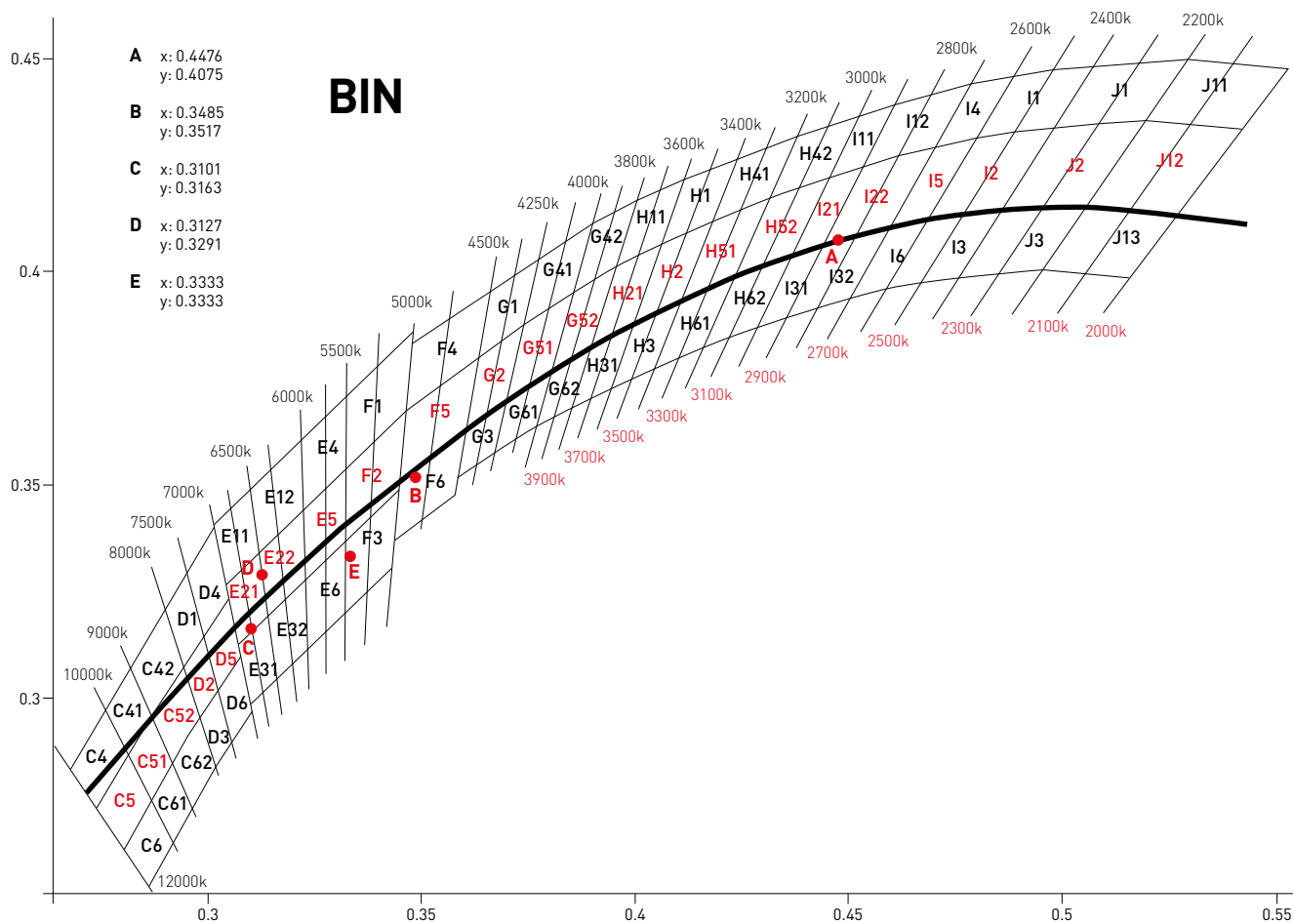
Parameter	Symbol	Rating
DC Forward Current	$I_F$	<b>350 mA</b>
Peak pulse Current*	$I_{FP}$	<b>500 mA</b>
Reverse Voltage	$V_R$	<b>50 V</b>
Power Dissipation	$P$	<b>10 W</b>
Operating Temperature Range	$T_{opr}$	<b>-30... 75 °C</b>
Storage Temperature Range	$T_{stg}$	<b>-40... 85 °C</b>
LED Junction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

\* 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	$V_F$	<b>30V</b>		<b>34V</b>	
Thermal Resistance Junction To Board	$R_{\theta J-B}$		<b>8°C/W</b>		
Luminous Flux	$\Phi_v$	<b>1000lm</b>		<b>1000lm</b>	
Color Temperature	CCT	<b>4000K</b>		<b>4500K</b>	$I_F=350\text{mA}$
CRI	$R_a$	<b>65</b>			
Temperature Coefficient of Forward Voltage	$\Delta V_F/\Delta T$		<b>-2mV/°C</b>		
Viewing Angle	$2\theta_{1/2}$		<b>120°</b>		
Reverse Current	$I_R$			<b>10µA</b>	$V_R=25V$

# ГРУППИРОВКА ПО СВЕТОВЫМ ХАРАКТЕРИСТИКАМ

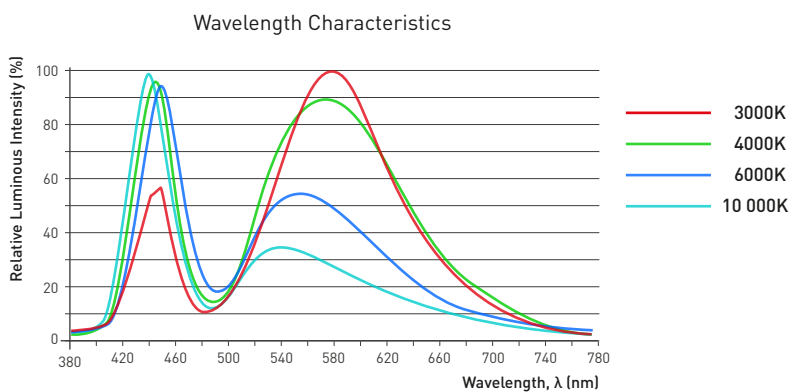
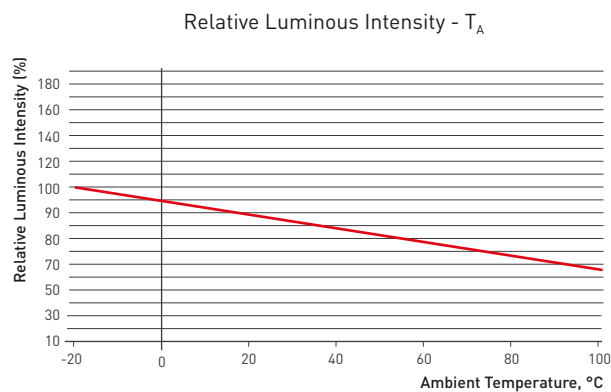
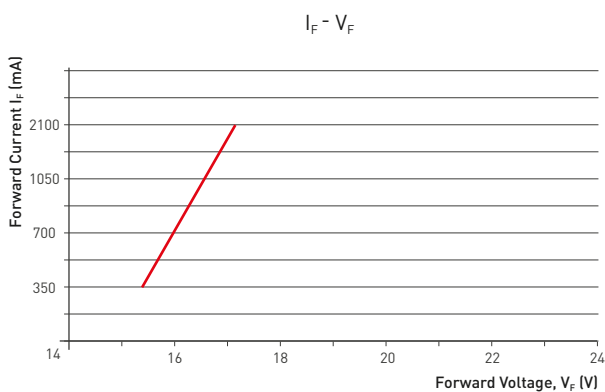
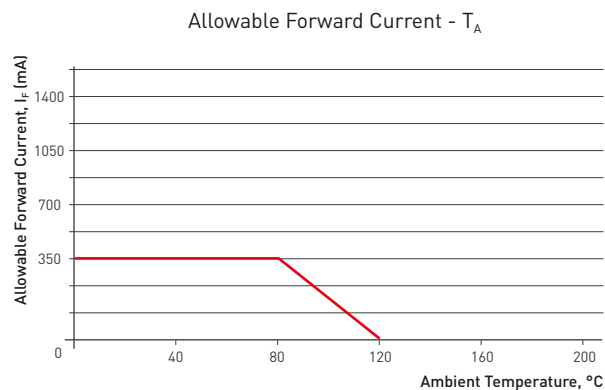
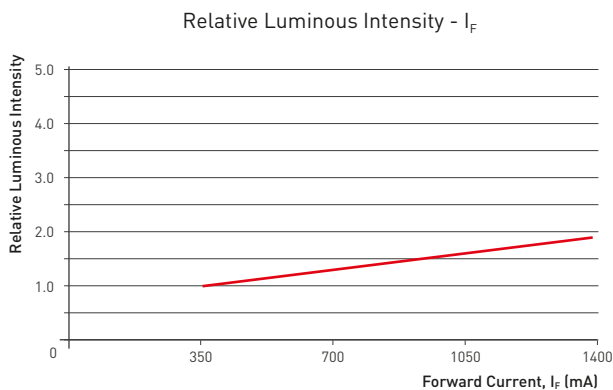


## ГРУППИРОВКА ПО СВЕТОВЫМ ХАРАКТЕРИСТИКАМ

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	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 <sub>A</sub> =100±5 °C	1000 Hrs	22	0/22
Low Temperature Storage	JEITA ED-4701 200 202	T <sub>A</sub> =40±5 °C	1000 Hrs	22	0/22
Humidity Heat Storage	JISC 7021 (1977)8-11	T <sub>A</sub> =60 °C RH=85%	1000 Hrs	22	0/22
Life test	JESD22-A108-A	T <sub>A</sub> =25 °C I <sub>F</sub> =350mA	1000 Hrs	22	0/22
High humidity Heat life test	JESD22-A101	T <sub>A</sub> =60 °C RH=85% I <sub>F</sub> =350mA	1000 Hrs	22	0/22
Resistance to soldering Heat	JESD22-A113	I <sub>R</sub> 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

