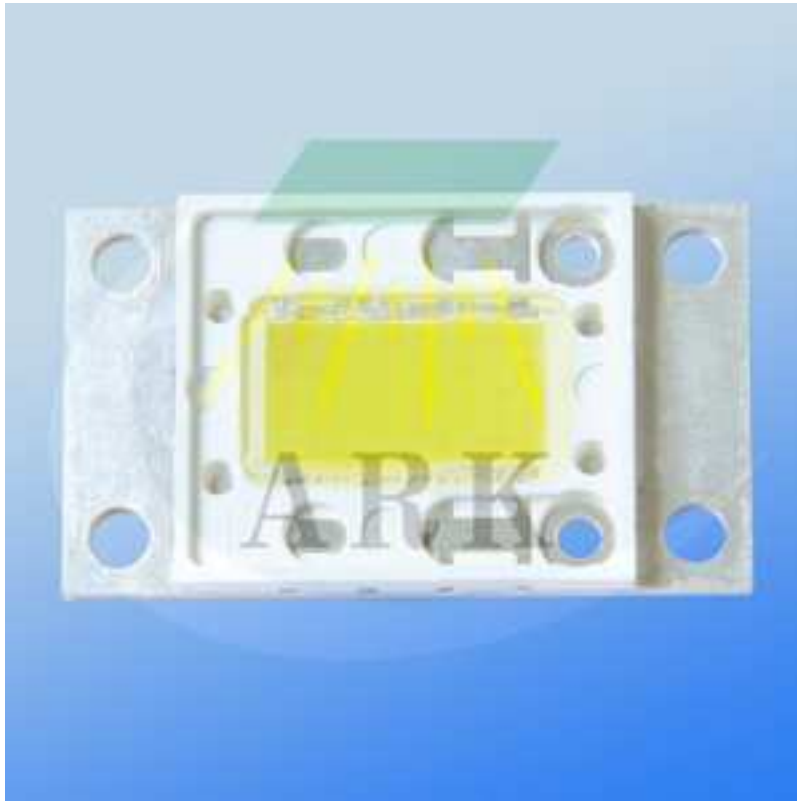


50W high power led



Ark 50 W high power led have high emitting efficiency,high anti-ESD capability,well heat resistant ability and excellent heat dissipation devices.on the other hand, it owns a range of advantages of low degradation,long operating life ,high power efficiency and so forth.our 50W high power led contains benefits of small dimension(e.g. a 50W can replace 45pcs 1W LED) Also, our 50W Hi-Power LED can arrive 2400lm to 3600lm,which are the brightest in the led field.meanwhie we can supply the excellent after-sales and service (free 3-years maintainance) , prompt shipment (3-5days after receiving the payment) and T/T payment in advance.it mainly is suitable for Street Lighting, Architectural Lighting, Spot Light.

Feature:

1. High light brightness arrives 3,000lm-4,500lm
2. Low light attenuation
3. Long operating life up to 50,000hs
4. High color rendering(CRI<90)
5. Flare with well-balanced
6. low power consumption
7. wide viewing angle reach up 140 degree
8. Light color: R/G/B/Y/RGB/white/IR
9. Mix quantity order about 100 PCS
10. Transportation contains Express and shipping
11. Superior quality and competitive price

Specification:

Item No	Lens Color	Emitting	Current(mA)	Forward	Viewing	Dominant	Luminous Flu
---------	------------	----------	-------------	---------	---------	----------	--------------

		color		Voltage	Angle(deg.)	Wavelength (nm)	
FZ-P050SWEX-XXXTC	Water clear	Pure white	1500	32-36	140	5500-8000	60-90
FZ-P050WWEX-XXXTC	Water clear	Warm white	1500	32-36	140	2300-5500	60-90
FZ-P050BHEX-XXXTC	Water clear	Blue	1500	32-36	140	450-475	15-40
FZ-P050GHEX-XXXTC	Water clear	Green	1500	32-36	140	490-530	60-90
FZ-P050AYEX-XXXTC	Water clear	Yellow	1500	22-26	140	585-595	30-60
FZ-P001OREX-XXXTA	Water clear	Red	1500	22-26	140	620-630	30-40
FZ-P050IREX-XXXTC	Water clear	Infrared	1500	14-16	140	835-945	/

1. Absolute Maximum Ratings

(Ta=25°C)

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	IF	1500	mA
Pulse Forward Current	IFP	3000	mA
Allowable Reverse Current	IR	10	uA
Power Dissipation	PD	1	W
Operating Temperature	Topr	-30~+85	°C
Dice Temperature	Tstg	-40~+100	°C
Soldering Temperature	Tsod	260	°C

◇ IFP Conditions : Pulse Width ≤10msec. and Duty ≤1/10

◇ Soldering Time : ≤5 sec.

2. Electrical/Optical Characteristics

(Ta=25°C)

Item	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	V _F	IF=1500[mA]	32.0		36.00	V
Allowable Reverse Current	IR	VR=5[V]	0		10	uA
Luminous Flux	Φ _v	IF=1500[mA]		2400	3600	lm
Temperature Color	TC	IF=1500[mA]	6500		7500	K
Chromaticity Coordinate	x	IF=1500[mA]		0.45		
	y	IF=1500[mA]		0.40		
Viewing Angle	2θ _{1/2}	IF=1500[mA]		140		

◇ Please refer to CIE 1931 chromaticity diagram

◇ Viewing Angle Measurement allowance is ±5%

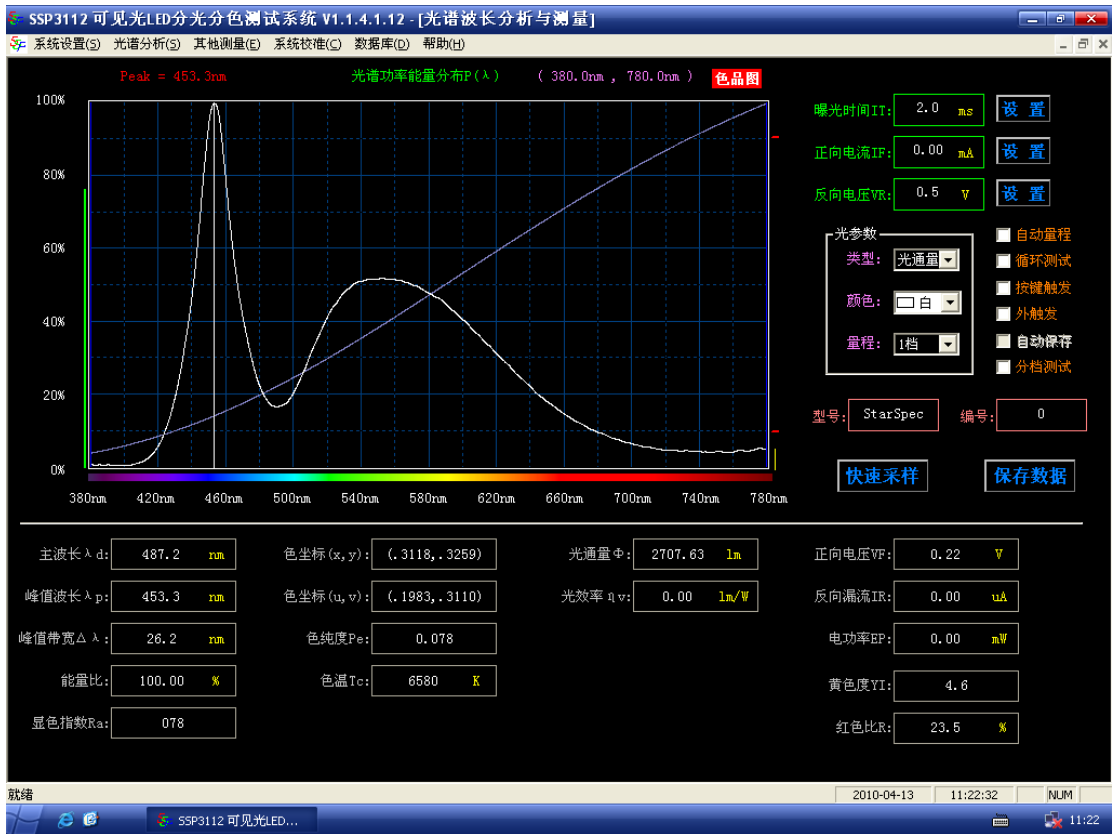
2. Ranking

(Ta=25°C)

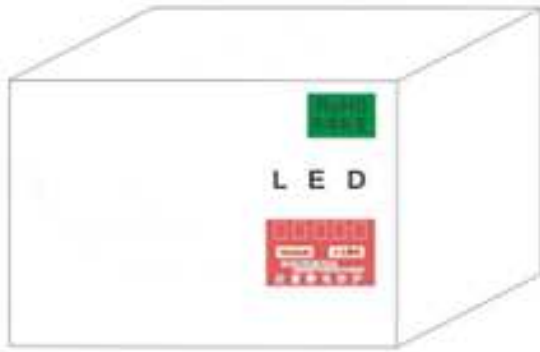
Item	Symbol	Condition	BIN CODE	Min	Max	Unit
Forward Voltage	VF	IF=1500[mA]	E	28	32	V
			F	32	36	
			G	36	40	
Luminous Flux	Φv	IF=1500[mA]	P	3000	3500	lm
			Q	3500	4000	
			R	4000	4500	

- Forward Voltage Measurement allowance is ±3%
- Luminous Intensity Measurement allowance is ±10%

3. Typical Electrical Optical Characteristics Curves((Ta=25°C Unless Otherwise Notes)



7..Packing Measurement



Carton Packing

NOTES:

1. Dimensions are in mm.
2. There are 50pcs emitters in a inner cardboard
3. There are three kind of cartons: 0.5k,1k,2k
4. A pc emitter to a shockproof particular plastics bag

8.Application:

indoor lighting, advertising lighting, desk lamp, emergency lighting, backlight, indirect lighting...etc for very good efficiency. This product has already stable and mass production!

