

Data Sheet for **LED Super Nova**,

proformic logo

一、 For Entire **LED Super Nova** based on wave length , lightness .

Bulb dimension : Ph5

Led : 14x L

Unit weight : approx 100 g

Unit size :12 x3.3x3 cm

Wave length : 400-405 nm

Lightness : 400-600 lumen

Vot : 4.5 V

Battery : 3xAAA (Dry Cell)

Photoelectricity Parameter

(Ambient temperature : 25°C humidity : RH60%)

Item	Symbol	Test condition	Min	Type	Max	Unit
Forward voltage	VF	IF=20mA	3.2	—	3.8	V
Reverse current	IR	VR=5V	—	—	5	μ A
Luminous intensity	IV	IF=20mA	400	—	500	mcd
Dominant wavelength	λ d	IF=20mA	400	—	405	nm
Viewing Angle	2 θ 1/2	IF=20mA	—	15	—	deg

Remark : The tolerance of intensity:±15%, The tolerance of wave length:±1nm,The tolerance of forwards voltage: ±0.05V. Only reference for above data when testing

三 , Reliability Test Project

Description	Item	Test criterion	Test condition	Test time	Qty	Fail qt
Life test	Life test(room temperature)	JIS7021:B4	Ta=25°C±5°C, IF=30mA	1000Hrs	22	0
Ambience test	High temperature store	JIS7021:B10 MIL-STD-202:210A MIL-STD-750:2031	Ta=85°C±5°C	1000Hrs	22	0
	Low temperature store	JIS7021:B12	Ta=-35°C±5°C	1000Hrs	22	0
	High temperature/ humidity test	JIS7021:B11 MIL-STD-202:103D	Ta=85°C±5°C RH=85%	1000Hrs	22	0
	Cold / Heat strike test	JIS7021::B4 MIL-STD-202:107D MIL-STD-750:1026	30min -10°C±5°C↔100°C±5°C 5min 5min	50Cycles	22	0
	Cold and heat cycle test	JIS7021:A3 MIL-STD-202:107D MIL-STD-705:105E	5min 5min 5min -35°C~25°C~85°C~25°C 30min 5min 30min 5min	50Cycles	22	0

Judging criterion:

Item	Symbol	Experiment condition	Criteria	
			Min.	Max.
Forward Voltage	VF	IF=20mA	----	Initial Datex1.1
Reverse Current	IR	VR=5V	----	30 μ A
Luminous Intensity	IV	IF=20mA	Initial Datex0.8	----