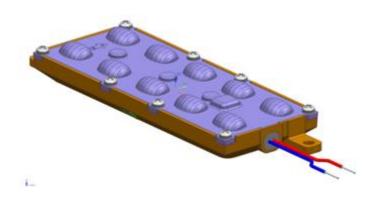


LED Module

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SPECIFICATION



LED Module for Modular Platform Series			
Model Name	LED Platform Module without Fin		
Туре	CRI min. 7 0, 3000K, Flux Rank 3, Type Ⅱ-M, 351B PKG		
Parts No.	SL-P7V2F32MBKI		

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SAMSUNG ELECTRONICS CO., LTD.



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REVISION HISTORY OF SPECIFICATION

REV. NUM	REVISION	PAGE	DATE	TRACED	APPROVED
0.0	The Preliminary specification established.	1~9	2015.05.12	_	S.A. Joo
0.1	The First Specification Established	1~9	2015.06.03	-	S.A. Joo



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CONTENTS OF SPECIFICATION

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2. FUNDAMENTAL SPECIFICATIONS OF MODULE	6
3. PARTS SPECIFICATIONS	7
4. APPEARANCE AND STRUCTURE	8
5. PACKING SPECIFICATION	9
6. Label Structure	10

This is a product specification of SL-P7V2F32MBKI, one of SL-Puv2vwaabcc. Please refer to relevant General and Special Application Notes for thermal, optical, electrical, mechanical design and reliability information.

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1. APPLICATION

25W Platform LED Module is designed as a core component in Modular Platform Engine Series for street light and flood light application. This document especially specifies 25W Platform LED Module with Fin, generally recommended for luminaires with insufficient thermal management by the fixture itself.

1-1 Modular Platform Modules.

There are three different types of heat sink designs for 25W Platform LED Module, intended for thermal management either by engine or by fixture.

This document especially specifies 25W Platform LED Module without Fin for thermal management by Fixtures.



(a) Module with Fin [Thermal management by Module/Engine]



(b) Module without Fin [Thermal management by Fixture]

1-2 Modular Platform Engine Series

Typical operating current for one module is set at 700mA, which allows lumen output increment by 2000lm(nominal value) depending on the number of LED modules.

1-2-1 Lumen Packages with LED Driver

Power Consumption (Engine, Nominal)	Modules (ea)	Driver Output Channels (ea)	Operating Current (mA)	Lumen Output (Im)
25W	1	1	700	2000
50W	2	1	700	4000
75W	3	1	700	6000
100W	4	2	700	8000
150W	6	2	700	12000

^{*} This Module is recommended using a Isolated PSU.

1-2-2 Current Distribution across Modules

Current per module can vary depending on the Vf distribution of modules in parallel, deviating from the nominal operating current(700mA). The Vf distribution of modules is tightly controlled to achieve uniform driving currents.

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1-2-3 Optic Solutions

Application	Light Distribution	Solutions	Material
	IESNA Type I	Medium(1)	PC
	IESNA Type II	Short(1), Medium(1), Medium(2)	PC
Street Light	IESNA Type III	Medium(1)	PC
	IESNA Type IV	Medium(1)	PC
	IESNA Type V	Short(1)	PC
Flood Light	Medium	Batwing (BA85)	PC

* BA : Beam Angle, PC : Polycarbonate

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2. FUNDAMENTAL SPECIFICATIONS OF MODULE

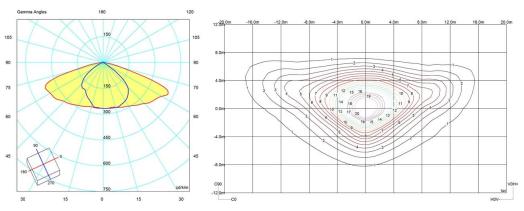
No. ARTICLE SPECIFICATIONS

Photometric Specification of Platform LED Module @700mA(stabilized at Tc~65℃)

CCT	Article	Symbol	MIN	TYP	MAX	Unit	Equipments
	Luminous Flux	LF	1950	2100	_	lm	Goniometer
	Color Temperature	CCT	2900	3000	3200	K	Integrating Sphere
3000K	Color Consistency	Step	-	3	_	MacAdam Step	Integrating Sphere
	Color Rendering Index	CRI	70	-	-	Ra	Integrating Sphere

- $\ensuremath{\,\times\,}$ Typical values are not necessarily the same as the nominal values.
- ** Measurement tolerance of luminous flux becomes \pm 7% in the value, and the measurement tolerance of the color coordinates is \pm 0.005.

2-1 Light Distribution Profile : Type II Medium(1) with Optimized Illuminance Uniformity



- * The isolux diagram is drawn at the luminaire height of 5m.
- * IES files(in IESNA or CIE format) are available with Optical Application Notes.

2-2	Dimension	· LED Module without Fin: 150(L)×50(W)×11.6(H) mm	
2-3	Weight	 LED Lighting Module : {0.17kg ± 0.02kg} * 24ea Total Weight (including packing box) : 5.4kg ± 0.6kg/1box 	
2-4	Operating Temperature Recommended Tc points as a function of number of described in Thermal Application Notes. Tc should be measured with recommended Heatshik.		
2-5	Storage Temperature	·-30° ~ +70° (Tc)	
2-6	Dust-proof Water-proof	IP66 for CE Marking Damp Location for UL Marking	

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LED Module

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No.	ARTICLE	SPECIFICATIONS							
	Electrical Specification	Specification of Platform LED Module (stabilized at Tc~65℃)							
	Article	Symbol	MIN	TYP	MAX	Unit	Remarks		
	Power Consumption	Р	-	21	25	W	30V x 0.7A, module only		
	Operating Current	lop	-	700	700	mA	per 1 Module [700mA /PKG 1EA,TYP.]		
	Operating Voltage	Vdc	26.0	30	33.0	V	per 1 Module [3.0V/PKG 1EA, TYP.] 10 LEDs in Series		
	Type Classification	· Built-in module							
2-7	Eye Protection	· Risk Group 2							
	Working Voltage for Insulation	· 50 V							
* The power consumption for a specific module is dependent on the op- distribution across the modules in parallel connection. The maximum means the highest limit in any operating condition.						on the operating voltage maximum operating current			
	※ Typical and Maximu Tolerance and meas						he value		
Woltage difference between modules are tightly controlled to be the maximum current of any module can be limited to 700mA. will be designated on the module label and box label.					be less than 1.0V so that mA. Voltage bins of modules				
* Safety and wiring information will be described in Electrical Appli						Application Notes.			
We recommend users to attach the surge protector to a PSU or to equipped surge protect circuit suitable for the user's atmosphere co					SU or to use a PSU that here condition.				

3. PARTS SPECIFICATIONS

No.	ARTICLE	SPECIFICATIONS		
3-1	Lens Cover Screw	Material : Stainless Steel with Teflon WasherLocation : between the array lens and heat sink		
3-2	Array Lens Cover	 Material: Polycarbonate Thickness: 2.0 mm Lens Type: Type II-M(1) UL-94 Flammability: V-2 * Protective Equipment in Luminaries needs to prevent flaming drips. 		
3-3	Seal Rubber · Material : Molded Silicone			
3-4	LED Board	LED : Ceramic PKG, CCT 3000K, CRI min. 70 Material : MCPCB, Aluminum Thickness : 1.6 mm Stainless Steel Screws : 3ea		
3-5	Side Inlet Harness	 Material : Molded PVC coated with Sealant Silicone, 105°C rating Wires : 24 AWG, 105°C rating Length(wires) : 550 mm 		
3-6	Heat Sink (without Fin)	Material : Die-cast Aluminium Thermal Pad between the PCB and Heat Sink		

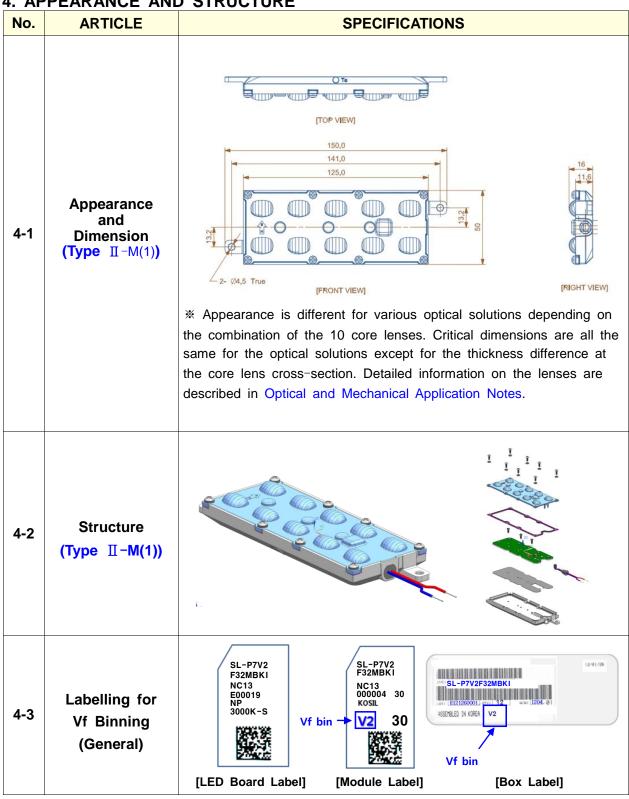
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4. APPEARANCE AND STRUCTURE



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5. PACKING SPECIFICATION

5-1 Packing Method

5-1-1 Inner Box: 12 modules of the same Vf bin in one inner box

12 PCs/Inner Box



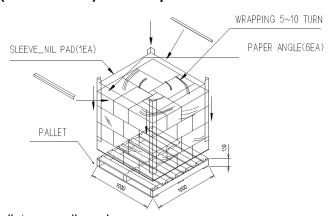
5-1-2 Outer Box: 24 modules on 2 stacks of inner boxes in one outer box

2 Stacks of Inner Boxes (419 x 240 x 189)





5-2 Pallet: 32 boxes(768 modules) on one pallet



* Two stacks of pallets are allowed.

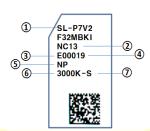


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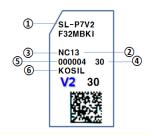
6. LABEL Structure

6-1 LED Board Label



Number	Item	Description
1	Model Number (Product Code)	-
2	SMT Date Code	year: A:00, B:01,H:07, I:08, month: 1,2,3,45,6,7,8,9,A,B,C day:01,02,03,04,05,31
3	SMT Line	-
(4)	Serial Number	00001 ~ 99999
(5)	LED Binning Code	-
(6)	ССТ	3000K / 4000 K / 5000 K
7	LED Maker	S: Samsung

6-2 Module Label



Number	Item	Description
1	Model Number (Product Code)	
2	Production Date Code	year: A:00, B:01,H:07, I:08, month: 1,2,3,45,6,7,8,9,A,B,C day:01,02,03,04,05,31
3	Serial Number	00001 ~ 99999-
4	ССТ	3000K / 4000K / 5000K
(5)	Manufacturing Location	KO (Country / Korea) + SIL (Factory)
6	Vf Binning Code	-

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6-3 Outer Box Label



Number	Item	Description
1	Model Number (Product Code)	-
2	Lot No.	Factory Code (2) + Production Date (4) + Serial No. (4)
3	Country of Origin	KOREA
4	Packing Quantity	24 pc
(5)	Production Date (year/week#)	yyww
6	Label Printing Date (year/month/date)	yy/mm/dd