

Document No. P7T2E385ZWW-02 REV.NO. PAGE **LED Module** SAMSUNG 02 2/9 **REVISION HISTORY OF SPECIFICATION** REV. NUM PAGE DATE TRACED APPROVED REVISION 1 The First specification established. 1~9 2014.12.05 S.A. Joo _ 2 Forward Voltage, Vf Changed 7 2015.03.03 S.A. Joo _

DATE OF ISSUE : March 03, 2015

			DATE OF ISSUE :	March 03,	2015
			Document No.	P7T2E38	5ZWW-02
SAMSUNG		Modul	0	REV.NO.	PAGE
SAMSUNG	LLD	WOUUI	C	02	3/9
COI	NTENTS O	F SPECIFI	CATION		
1. APPLICATION					4
2. FUNDAMENTAL SP	ECIFICATIONS	OF MODULE			6
3. PARTS SPECIFICAT	FIONS				7
4. APPEARANCE AND	STRUCTURE				8
5. PACKING SPECIFIC	CATION				9

This is a product specification of SL-P7T2E385ZWW, one of SL-Puv2Ewaabcc. Please refer to relevant General and Special Application Notes for thermal, optical, electrical, mechanical design and reliability information.

			DATE OF 1330E		
			Document No.	P7T2E38	5ZWW-
SAMSUNG		Modu		REV.NO.	PAG
SAMSONG		wouu		02	4/9
1. APPLICATION Platform LED Module is c Series for street light and Platform LED Module with thermal management by the	flood light applicant Fin , generally	ation. This docu	ment especially sp	becifies	
1-1 Modular Platform Mo	dules.				
There are three different intended for thermal man This document especially management by Module	agement either to specifies Platfor	by engine or by rm LED Module	fixture.		
				and the second s	
(a) Modu	le with Fin	U.	(b) Module witho	ut Fin	
[Thermal managemen	t by Module/En	gine] [Th	ermal managemer	nt by Fixtur	e]
 1-2 Modular Platform Eng Typical operating current for increment by 2100lm(nomine 1-2-1 Lumen Packages 	r one module is nal value) deper	nding on the nur			
Power	Modules	Driver Output	Operating Current	Lumen	

DATE OF ISSUE : March 03, 2015

Power Consumption (Engine, Nominal)	Modules (ea)	Driver Output Channels (ea)	Operating Current (mA)	Lumen Output (Im)
25W	1	1	700	2100
50W	2	1	700	4200
75W	3	1	700	6300
100W	4	2	700	8400
150W	6	2	700	12600

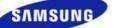
 $\ensuremath{\overset{\scriptstyle \otimes}{_{\scriptstyle -}}}$ This Module is recommended using a Isolated PSU.

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.

DATE OF ISSUE : March 03, 2015

Document No. P7T2E385ZWW-02



LED Module

 REV.NO.
 PAGE

 02
 5/9

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

							Docum	ent No	. P7T2E38	5ZWW-C
C A I	NSUN			ED	Mo	dul	0		REV.NO.	PAGE
		ENTAL SI							02	6/9
No.							- CATION	S		
	Photon	netric Specif	fication of I	Platform	LED M	odule @) 700mA (stabili	zed at Tc~6	5°C)
	ССТ	Arti	cle	Symbol	MIN	TYP	MAX	Unit	Equipm	ents
		Lumino	us Flux	LF	1950	2100	-	lm	Goniometer	
	4000K	Color Ten	nperature	CCT	3650	3900	4200	К	Integrating	Sphere
		Color Rende	ering Index	CRI	70	-	-	Ra	Integrating	Sphere
		Distribution I		-						niformit
		e isolux diag							tion Notes.	
2-2	Dir	nension	・LED Mo	dule with	n Fin : 1	50(L)× <mark>50</mark>)(W)×45.	<mark>02</mark> (H)	mm	
2-3	V	Veight	-	 LED Lighting Module : {0.28kg ± 0.03kg} * 12ea Total Weight (including packing box) : 4.8kg ± 0.5kg/1box 						
2-4	Or Ten	perating perature				Tc p	point		at Ta ~ 25°	
			descril	bed in T	hermal A				mber of mod	ules are
2-5		torage nperature	•-30℃ ~ ※ Ambie	•	,	ithout op	peration			
2-6	Dust-proof Water-proof· IP66 for CE Marking · Damp Location for UL Marking									

DATE OF ISSUE : March 03, 2015

Document No. P7T2E385ZWW-02

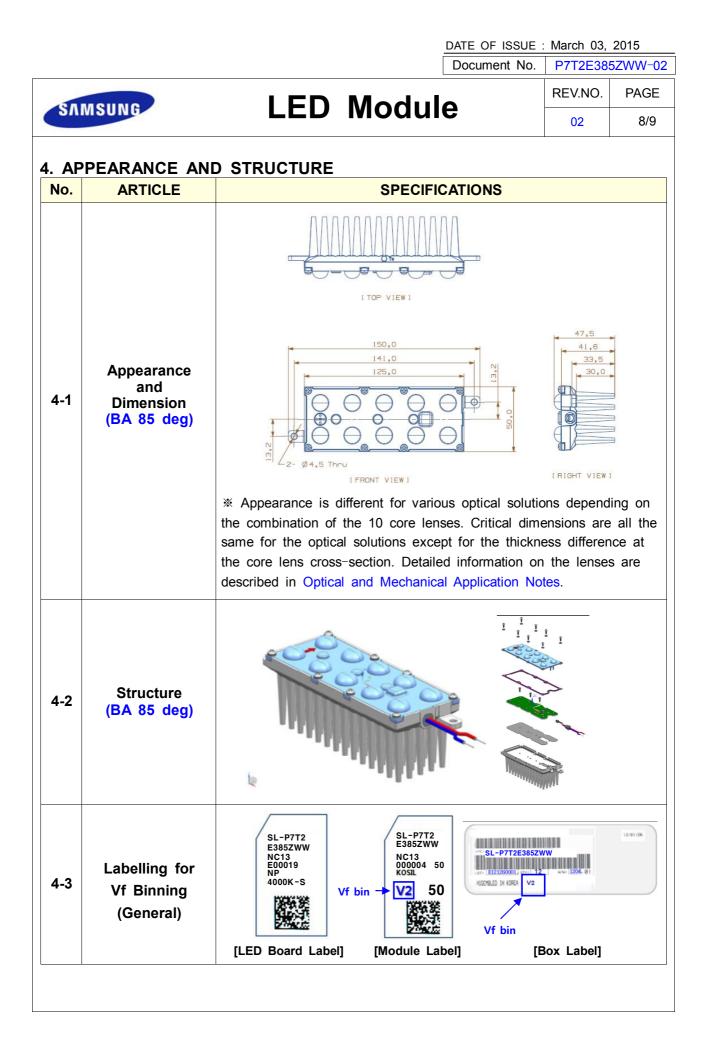
SAMSUNG

LED Module

 REV.NO.
 PAGE

 02
 7/9

No.	ARTICLE	SPECIFICATIONS								
	Electrical Specification of Platform LED Module @700mA (stabilized at Tc~65°C)									
	Article	Symbol	MIN	TYP	MAX	Unit	Remarks			
	Power Consumption	Р	-	21	25	W	30V x 0.7A, module only			
	DC Forward Current	I	-	700	700	mA	per 1 Module [700mA /PKG 1EA,TYP.]			
	Forward Voltage	Vf	26.0	30.0	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 G	roup 2							
	Working Voltage for Insulation	• 50V								
	distribution across	mption for a specific module is dependent on the operating voltage the modules in parallel connection. The maximum operating curre st limit in any operating condition.								
	* Typical and Maximum Operating Current may have $\pm 5\%$ Tolerance									
	Voltage difference between modules are tightly controlled to be less than 1.0V the maximum current of any module can be limited to 700mA. Voltage bins of will be designated on the module label and box label.									
	- C	g information will be described in Electrical Application Notes.								
	* We recommend us equipped surge pro	ers to attach the surge protector to a PSU or to use a PSU that otect circuit suitable for the user's atmosphere condition.								
3. PA	RTS SPECIFICAT	ONS								
No.	ARTICLE	SPECIFICATIONS								
3-1	Lens Cover Screw	 Material : Stainless Steel with Teflon Washer Location : between the array lens and heat sink 								
		Material : Polycarbonate								
2.0		• Thickne			mm					
3-2	Array Lens Cover • Lens Type : Beam Angle 85 degree • UL-94 Flammability : V-2 ※ Protective Equipment in Luminaries needs to prevent flaming data									
3-3	Seal Rubber	• Materia		-		nes nee	as to prevent naming anps.			
5-5							1 min 70			
3-4	LED Board	 LED : Ceramic PKG, CCT 4000K, CRI min. 70 Material : MCPCB, Aluminum Thickness : 1.6 mm Stainless Steel Screws : 3ea 								
	Side Inlet	• Material : Molded PVC coated with Sealant Silicone, 105℃ rating					ealant Silicone, 105°C rating			
3-5	Harness	• Wires : 24 AWG, 105℃ rating, 550mm Length								
3-6	Heat Sink (with Fin)	Material : Die-cast Aluminium Thermal Pad between the PCB and Heat Sink								



DATE OF ISSUE : March 03, 2015 P7T2E385ZWW-02 Document No. REV.NO. PAGE **LED Module** SAMSUNG 9/9 02 5. PACKING SPECIFICATION 5-1 Packing Method 5-1-1 Inner Box : 6 modules of the same Vf bin in one inner box 6 PCs/Inner Box 5-1-2 Outer Box : 12 modules on 2 stacks of inner boxes in one outer box 2 Stacks of Inner Boxes (419 x 240 x 189) IN KOREA 5-2 Pallet : 32 boxes(384 modules) on one pallet WRAPPING 5~10 TURN PAPER ANGLE(6EA) SLEEVE_NIL PAD(1EA) PALLET * Two stacks of pallets are allowed.