

Document No. P7T2E32MZWW-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 2014.12.10 S.A. Joo _ 2 Forward Voltage, Vf Changed 7 2015.03.03 S.A. Joo _

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This is a product specification of SL-P7T2E32MZWW, one of SL-Puv2Ewaabcc. Please refer to relevant General and Special Application Notes for thermal, optical, electrical, mechanical design and reliability information.

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SAMSUNG		louun	5	02	4/9
1. APPLICATION Platform LED Module is des Series for street light and flo Platform LED Module with thermal management by the	od light application. Fin, generally recom	This docume	ent especially sp	ecifies	
1-1 Modular Platform Modu	ıles.				
There are three different ty	pes of heat sink des	igns for Plat	form LED Modu	le,	
intended for thermal manag	ement either by eng	ine or by fix	ture.		
This document especially s	pecifies Platform LE	D Module v	vith Fin for the	rmal	
management by Modules	or Engines themselv	/es.			
a source			A		



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

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

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1-2 Modular Platform Engine Series

Typical operating current for one module is set at 700mA, which allows lumen output increment by 2100Im(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	2100
50W	2	1	700	4200
75W	3	1	700	6300
100W	4	2	700	8400
150W	6	2	700	12600

* 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

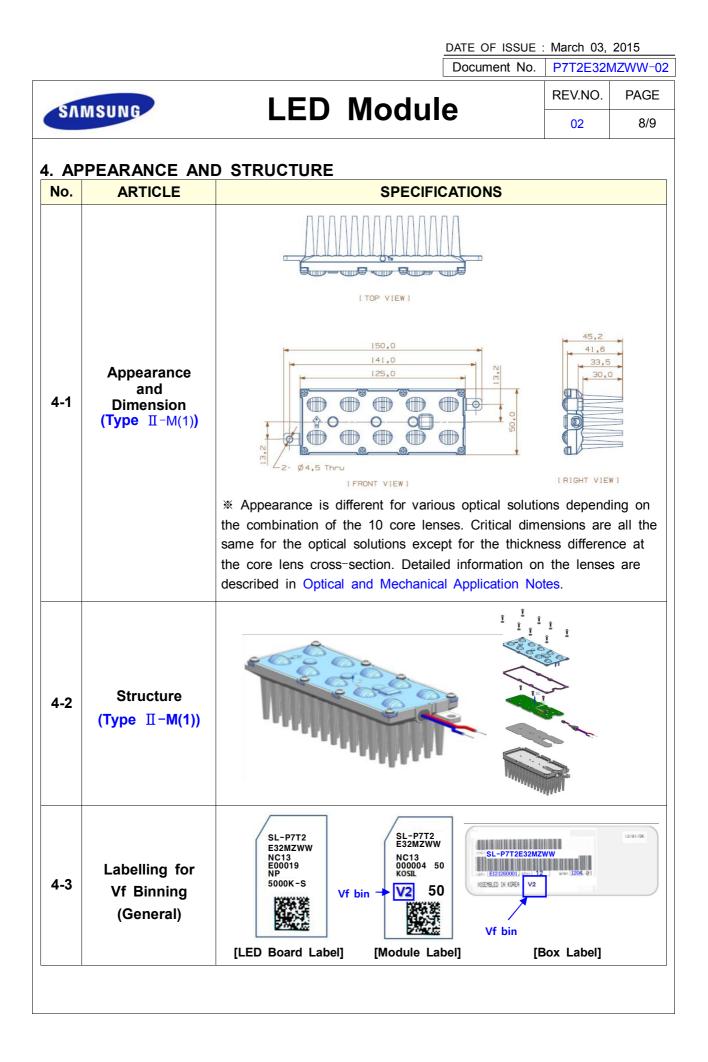
* BA : Beam Angle, PC : Polycarbonate

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. FU	INDAM	ENTAL S	PECIFICA	TIONS	OF M	ODULI	E		02	
No.	AF	RTICLE			S	PECIFIC	CATION	S		
	Photon	netric Speci	fication of	Platform	LED Mo	odule @)700mA(stabiliz	ed at Tc~65	°C)
	ССТ	Art	icle	Symbol	MIN	TYP	MAX	Unit	Equipme	ents
		Lumino	us Flux	LF	1950	2100	-	lm	Goniometer	
	4000K	Color Ten	nperature	CCT	3650	3900	4200	К	Integrating S	Sphere
		Color Rend	ering Index	CRI	70	-	-	Ra	Integrating S	Sphere
	≫ Тур	oical values	are not nece	essarily th	he same	as the	nominal	values	5.	
	Light [Profile : Ty	pe II Me	dium(1)	with Op	otimized	Illumi	nance Unifo	rmity
• •			600		18.000 -	16.0m -12.0m -8.0i	m -4.0m 0.0m	4.0m 8.0m	12.0m 16.0m 20.0m	
2-1		105	XX	41	105 14.0m					
		90			90 10.0m		1-2-3			
		60	1200	$\langle X \rangle$	60 -2.0m	2	8 12 17 16 4 7 9 6		2	
		90	1800	\mathbf{X}	-6.0m	H H	3			
		45	2400		45 -10.0m					
		270	3000	15 30	C90 -18 0m°		Pavement		Iux V0H+	
	* The	e isolux diag				e heiaht			100-	
		6 files(in IES				-		Applica	ation Notes.	
2-2	Dir	mension	· LED Mo	dule with	Fin : 1	50(L)× <mark>5(</mark>)(W)×45.	02(H)	mm	
• •				lation Ma			0.001.3	* 120	a	
2-3	v	Naiaht	LED LIY	nting ivio	dule:{ <mark>(</mark>	.28kg ±	0.03kg}	1200	<i></i>	
		Veight	J	•	•	•).5kg/1box	
		Veight	• Total We	eight (inc	luding pa	acking b	ox) : 4.8	kg ± ().5kg/1box	C)
2-4		perating	• Total We	eight (inc	luding pa	acking b	ox) : 4.8	kg ± (C)
2-4			• Total We	eight (inc	luding pa	acking b C ~ +80	ox) : 4.8	kg ± ().5kg/1box	2)
2-4		perating	• Total We	eight (inc	luding pa	acking b C ~ +80	ox) : 4.8)℃ (Tc ~	kg ± (- 65℃	0.5kg/1box at Ta ~ 25°	
2-4		perating	• Total We • Case Te * Recor	eight (inc	luding pa e : +10°	acking b C ~ +80	ox) : 4.8 D°C (Tc ~	kg ± (65°C).5kg/1box	
2-4	Terr	perating	 Total We Case Te Case Te Recordescri -30 °C ~ 	nmended hed in Ti	Iuding pa e : +10° Iuding pa e : +10° Tc poin hermal A Tc)	Tc p ts as a	ox) : 4.8)°C (Tc ~	kg ± (65°C	0.5kg/1box at Ta ~ 25°	
	Terr S Terr	perating perature	• Total We • Case Te * Recor descri	nmended bed in Th +70°C (T	Iuding pa e : +10° Iuding pa e : +10° Tc poin hermal A Fc) rature w	Tc p ts as a	ox) : 4.8)°C (Tc ~	kg ± (65°C	0.5kg/1box at Ta ~ 25°	

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SM	LED Module				02	7/9					
No.	ARTICLE	SPECIFICATIONS									
	Electrical Specification of Platform LED Module @700mA (stabilized at Tc~65°C)								C)		
	Article	Symbol	MIN	TYP	MAX	Unit		Remarks			
	Power Consumption	Р	-	21	25	W	30V x (0.7A, modul	e only		
	DC Forward Current	Ι	-	700	700	mA	per 1 Module				
	Forward Voltage	Vf	26.0	30.0	33.0	V					
	Type Classification	Type Classification · Built-in module									
2-7	Eye Protection	• Risk G	roup 2								
2-1	Working Voltage for Insulation	• 50V									
	* The power consumption for a specific module is dependent on the operating volta distribution across the modules in parallel connection. The maximum operating cur means the highest limit in any operating condition.						ltage current				
	st Typical and Maximum Operating Current may have $\pm 5\%$ Tolerance										
	Voltage difference between modules are tightly controlled to be less than 1.0V s the maximum current of any module can be limited to 700mA. Voltage bins of r will be designated on the module label and box label.						so that modules				
	* Safety and wiring i	nformation	will be	describe	ed in <mark>El</mark>	ectrical	Applicatio	on Notes.			
	We recommend us equipped surge pro	ers to atta tect circuit	ch the s suitable	surge pro	otector to user's	o a PS atmosp	U or to u here conc	use a PSU	that		
3. PA	RTS SPECIFICATI	ONS									
No.	ARTICLE			ę	SPECIF		ONS				
3-1	Lens Cover Screw	 Material Location 					Vasher heat sin	k			
		• Materia			;						
3-2	Array Lens Cover	Thickne			(1)						
0 2		 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 4000K, 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℃ rating Wires : 24 AWG, 105℃ rating Length(wires) : 550 mm 									
3-6	Heat Sink (with Fin)	 Material : Die-cast Aluminium Thermal Pad between the PCB and Heat Sink 									



DATE OF ISSUE : March 03, 2015 P7T2E32MZWW-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.