Linear Module, F-series Model Name LT-F562A Type 560x18x5.2[mm] 3000 K SI-B8V341560WW 3500 K SI-B8U341560WW 3000 K SI-B8U341560WW 3000 K SI-B8T341560WW 5000 K SI-B8T341560WW	SAMSU	NG	LED Mo	dule	Rev. No	Page
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Parts No. 3500 K SI-B8U341560WW 4000 K SI-B8T341560WW	-	Туре	560x18x5.2[mm]			
Parts No. 4000 K SI-B8T341560WW			3000 K	SI-B8V341560WW		
		Parts No.	3500 K	SI-B8U341560WW		
5000 K SI-B8R341560WW			4000 K	SI-B8T341560WW		
			5000 K	SI-B8R341560WW		
SAMSUNG ELECTRONICS CO,.LTD. SAN #24 NONGSEO-DONG, GIHEUNG-GU,						
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1. Products and Application

This specification defines general specification and performance for LED Linear module. Samsung Linear Modules target to replace conventional fluorescent lamps as T5, T8 and so on with LED solutions. Due to transferring LED, new luminaire transferred to LED can take more energy saving and longer life-time.

In special, Samsung has competitiveness in middle-power solutions. This module uses LM561B. Middle power solutions provide more homogeneous and higher efficient lights. Linear module has been designed to expand length simply and adopt easy connection way.

This F-series have high lumen performance and it's suitable for high-bay or low-bay applications of industrial site such as warehouse, plant and so on.

2. Specification

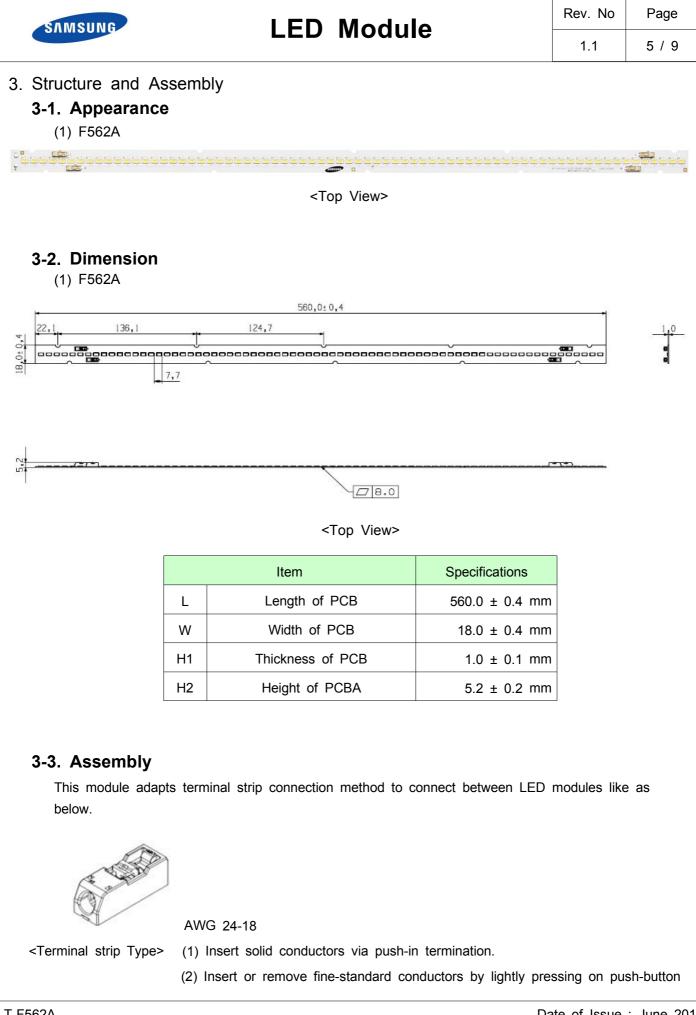
No.	Item	Specifications	Unit	Remark
2-1	Dimension	560.0(L) × 18.0(W) × 5.2(h) mm	mm	Tolerance:±0.4mm
2-2	Weight	48.0 (g)	g	Tolerance:±2.4(g)
2-3	Rated lifetime	> 50,000	hour	L70B50 @Tc = 85℃
2-4	Ingress Protection	N/A	-	-
2-5	Operating Temperature	Ta = - 20 ~ 70	Ĵ	-
2-6	Storage Temperature	Ta = - 35 ~ 85	C	-

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LED Module

							1	
No.	ltem	Specifications					Unit	Remark
NO.	NO. Rem		Model	Min.	Nom.	Max.		IXemark
			3000K	3641	4310	4502		
2-7	Luminous flux	Φν	3500K	3701	4370	4577	- Im	@1350mA,
2-1		Ψ_{v}	4000K	3826	4510	4731		Tp = 50℃
			5000K	3949	4650	4883		
			3000K	-	131	-		
2-8	Efficiency	LPW	3500K	-	133	-	Im/W	@1350mA,
2-0			4000K	-	137	-		Tp = 50℃
			5000K	-	141	-		
2-9	Color consistency	-		_	4	_	step	MacAdam
2-5	Color consistency			-			Sicp	@ initial time
2-10	Color Rendering Index	CRI	-	80	-	-	Ra	-
			3000K	2907	2997	3092		
2-11	ССТ	_	3500K	3322	3439	3565	ĸ	@1350mA,
2-11		_	4000K	3816	3963	4126		Tp = 50℃
			5000K	4847	5097	5389		
2-12	Operating Current	lop	-	-	1350	-	mA	-
2-13	Operating Voltage	Vdc			24.7	-	V	@1350mA,
2-13			-	-			v	Tp = 50℃
2-14	Power Consumption	-		_	33.0	-	W	@1350mA,
2-14			-	-			vv	Tp = 50℃

* Measurement tolerance of luminous flux becomes \pm 7% in the value, measurement tolerance of Vf becomes \pm 0.3V in the value and the measurement tolerance of the color coordinates is \pm 0.005.



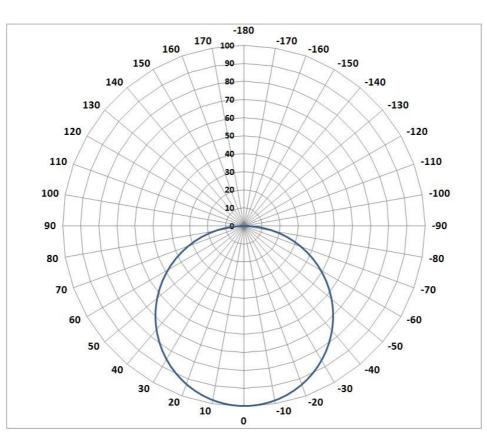
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3-4. Structure

No.		Item	Specifications		
	3-1	LED	LM561B : Middle Power LED		
Module	3-2	PCB	Material : Copper, Solder mask and Epoxy		
Assembly	3-3	Connector	AWG 24-18 Strip Length 6-7 mm		

3-5. Light Distribution

(1) Polar Intensity Diagram : Beam Angle 115 ± 5 [°]



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3-6. Thermal Manage	ement				
(1) Tc Point : See the	below red mark.				
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(2) Tc_life : Max tempe	erature to reach 50,000 hours				
- Tc_life = 85 deg	gree for > 50,000 (L70B50)				
(3) Tc_max : Max temp	perature to operate				
- Tc_max = 90 de	gree				

4. Approbation

Item	Compliant to	Result / Remark
General	Eye safety : IEC62471	LM561B LED
Hazardous Substance & Materials	RoHS / Reach	Declared
	UL/cUL	E344519
		IEC 62031:2008
Certification	CE	IEC 62471:2008
		IEC 62031:2008
	ENEC	IEC 62471:2008

5. Packing

5-1 Module Q'ty

-	1 Tray	1 Box	1 Pallet
Num. of modules	40	280	5600 (20 boxes)

5-2 Pallet : 1100(L) x 1100(W) x 130(h) mm



6. Precautions In Handling

1) LED Lighting for white light are devices which are materialized by combining white LEDs. The color of white light can differ a little unusually to diffuser plate(sign-board panel).

2) Handling

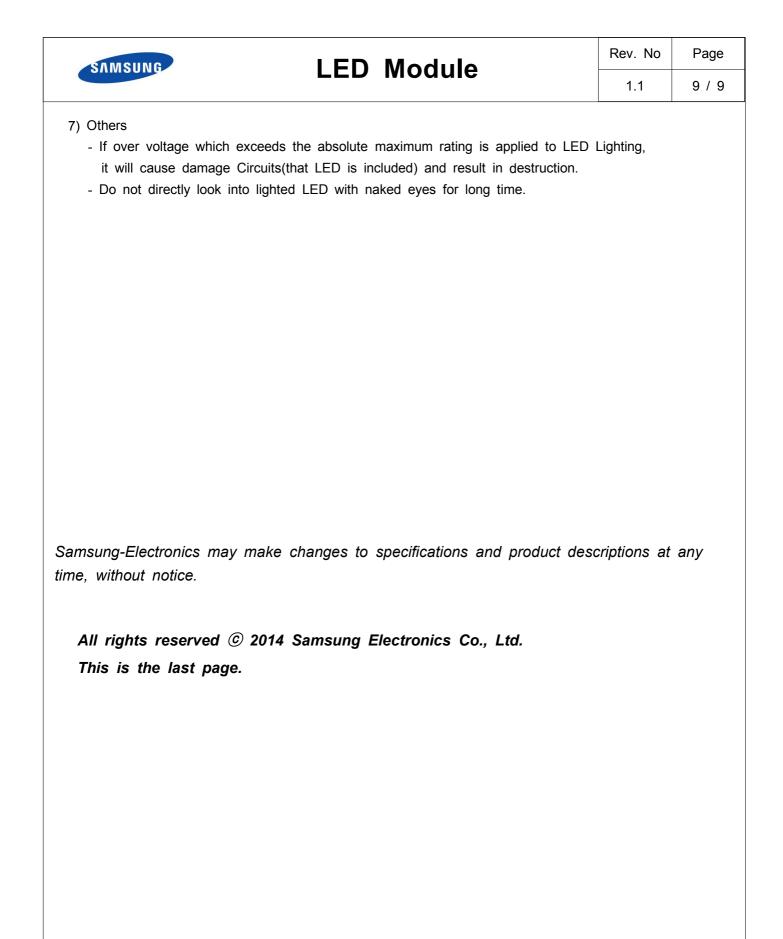
- Don't drop the unit and don't give the unit any shocks.
- Don't storage the Module in a dusty place or room.
- Don't take the unit to pieces.

3) Cleaning

- This LED Module should not be used in any type of fluid such as oil, organic solvent, etc.
- It is recommended that IPA(Isopropyl Alcohol) be used as a solvent for cleaning the LED Module.
- When using other solvents, it should be confirmed beforehand whether the solvents will dissolve the package and the resin or not. Freon solvents should not be used to clean the LEDs because of worldwide regulations. Do not clean the LED Module by the ultrasonic.
- Before cleaning, a pre-test should be done to confirm whether any damage to the LED Lighting will occur.

4) Static Electricity

- Static electricity or surge voltage damages the LED Lighting.
- 5) Discoloration
 - VOCs (volatile organic compounds) may be occurred by adhesives, flux, hardener or organic additives which is used in luminaires (fixture) and LED silicone bags are permeable to it. It may lead a discoloration when LED expose to heat or light.
 - This phenomenon can give a significant loss of light emitted(output) from the luminaires(fixtures).
 - In order to prevent these problems, we recommend you to know the physical properties for the materials used in luminaires, it requires to select carefully.
- 6) Risk of Sulfurization (or Tarnishing)
 - The lead frame from Samsung Electronics is a plated package and it may change to black (or dark colored) when it is exposed to Ag (a), Sulfur (S), Cchlorine (Cl) or other halogen compound. It requires attention.
 - Sulfide (Sulfurization) of the lead frame may cause a change of degradation intensity, chromaticity coordinates and it may cause open circuit in extreme cases. It requires attention.
 - Sulfide (Sulfurization) of the lead frame may cause of storage and using with oxidizing substances together. Therefore, LED is not recommend to use and store with the below list.
 - : Rubber, Plain paper, lead solder cream etc.



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