LED Module

V-series

VB22A
VB22B
VB22C
V562A
and the second
V562B
V562C
V282A
V282B

Features& Benefits

- Cost effective solution, deliver better lm/\$
- Same mechanical foot-print as existing M-series
- Good efficacy, 146 lm/W @ 4000K
- •

Applications

Indoor Lighting:

• Troffer / Linear / Line fixtures





Table of Contents

1.	Product Code Information	 3
2.	Characteristics	 6
3.	Structure and Assembly	 14
4.	Certification and Declaration	 25
5.	Label Structure	 26
6.	Packing Structure	 29
7.	Precautions in Handling & Use	 31
APPENDIX 1.	Tc vs Lifetime	 32
APPENDIX 2.	If vs Luminous Flux	 32
APPENDIX 3.	If vs Efficiency	 36
APPENDIX 4.	Applicable Solid Wires	 41

SAMSUNG

2

1. Product Code Information

a) VB22A

Nominal CCT (K)	Product Code
3000	SI-B8V221B2CUS
3500	SI-B8U221B2CUS
4000	SI-B8T221B2CUS
5000	SI-B8R221B2CUS

b) VB22B

Nominal CCT (K)	Product Code
3000	SI-B8V301B2CUS
3500	SI-B8U301B2CUS
4000	SI-B8T301B2CUS
5000	SI-B8R301B2CUS

c) VB22C

Nominal CCT (K)	Product Code
3000	SI-B8V341B2CUS
3500	SI-B8U341B2CUS
4000	SI-B8T341B2CUS
5000	SI-B8R341B2CUS

d) V562A

Nominal CCT (K)	Product Code
3000	SI-B8V11156CWW
3500	SI-B8U11156CWW
4000	SI-B8T11156CWW
5000	SI-B8R11156CWW

e) V562B

Nominal CCT (K)	Product Code
3000	SI-B8V15156CWW
3500	SI-B8U15156CWW
4000	SI-B8T15156CWW
5000	SI-B8R15156CWW

f) V562C

Nominal CCT (K)	Product Code
3000	SI-B8V17156CWW
3500	SI-B8U17156CWW
4000	SI-B8T17156CWW
5000	SI-B8R17156CWW



g) V282A

Nominal CCT (K)	Product Code
3000	SI-B8V06128CWW
3500	SI-B8U06128CWW
4000	SI-B8T06128CWW
5000	SI-B8R06128CWW

h) V282B

Nominal CCT (K)	Product Code
3000	SI-B8V08128CWW
3500	SI-B8U08128CWW
4000	SI-B8T08128CWW
5000	SI-B8R08128CWW

2. Characteristics

Item	Rating	Unit	Remark
Rated Lifetime	>50,000	hour	L70B50
Ingress Protection (IP)	no rating	-	
Ambient / Operating Temperature (t _{amb})	-30 ~ +50	°C	
Storage Temperature	-30 ~ +80	°C	

(a) VB22A

Item	Nom. CCT		Rat	ing		Remark
	(K)	Min	Тур.	Max	Unit	
	3000	2426	2696	2968		
	3500	2520	2800	3082		
Luminous Flux (Φ_v)	4000	2614	2904	3194	— lm	
	5000	2614	2904	3194		
	3000	115	127	140		
Luminous Efficacy	3500	119	132	146	lm/W	
Lummous Enfeaty	4000	124	137	151	$I_{\rm f} = 840 \ {\rm m}$	$I_{\rm f}=840\ mA$
	5000	124	137	151		$t_p = 50 \ ^{\circ}\mathrm{C}$
	3000	2980	3045	3110		
CCT	3500	3360	3465	3570	— K	
CCI	4000	3830	3985	4130	K	
	5000	4810	5028	5240		
Color Consistency (initial)		-	-	3	Mac Adam step	
Color Rendering Index (Ra)		80	83	-	-	
Operating Current (I _f)		-	840	1080	mA	-
Operating Voltage (V _f) 22.68		25.2	27.72	Vdc	$I_{\rm f}=840mA$	
Power Consumption		19.04	21.16	23.28	W	$t_p = 50 \ ^{\circ}\mathrm{C}$

Notes:

I) t_p : temperature at which performance is specified; measured at "tc point".

(b) VB22B

Item	Nom. CCT		Rat	ting		Remark
	(K)	Min	Тур.	Max	Unit	Remark
	3000	3681	4090	4499		
Luminous Fluy (A)	3500	3796	4218	4640	lm	
Luminous Flux (Φ_v)	4000	3883	4314	4745	Im	
	5000	3883	4314	4745	_	
	3000	115	128	141		
Luminous Efficacy	3500	119	132	145		$I_f = 1260 \text{ mA}$ $t_p = 50 \text{ °C}$
Lummous Emcacy	4000	121	135	148		
	5000	121	135	148		
	3000	2980	3045	3110	К	
CCT	3500	3360	3465	3570		
tti	4000	3830	3985	4130		
	5000	4810	5028	5240		
Color Consistency (initial)		-	-	3	Mac Adam step	
Color Rendering Index (Ra)		80	83	-	-	
Operating Current (I _f)		-	1260	1440	mA	-
Operating Voltage (V _f)		22.82	25.36	27.9	Vdc	$\rm I_f=1260~mA$
Power Consumption		28.75	31.96	35.15	W	$t_p = 50 \ ^{\circ}\mathbb{C}$

Notes:

1) t_p : temperature at which performance is specified; measured at "tc point".

(c) **VB22C**

Item	Nom. CCT		Rat	ting		Remark
	(K)	Min	Тур.	Max	Unit	Remark
	3000	4086	4540	4994		
Lunion Plum (A.)	3500	4264	4738	5212		
Luminous Flux (Φ_v)	4000	4428	4920	5412	lm	
	5000	4428	4920	5412	_	
	3000	122	135	149		
	3500	127	141	155	lm/W	$I_f = 700 \text{ mA}$ $t_p = 50 \text{ °C}$
Luminous Efficacy	4000	132	146	161		
	5000	132	146	161		
	3000	2980	3045	3110	К	
ССТ	3500	3360	3465	3570		
CC1	4000	3830	3985	4130		
	5000	4810	5028	5240		
Color Consistency (initial)		-	-	3	MacAdam step	
Color Rendering Index (Ra)		80	83	-	-	
Operating Current (I _f)		-	700	1080	mA	-
Operating Voltage (V_f)		43.2	48.0	52.8	Vdc	$I_{\rm f}=700\ mA$
Power Consumption		30.24	33.6	36.96	W	$t_p = 50 \ ^{\circ}\mathrm{C}$

Notes:

1) t_p : temperature at which performance is specified; measured at "tc point".

(d) V562A

Item	Nom. CCT		Rat	ting		Remark
	(K)	Min	Тур.	Max	Unit	
	3000	1213	1348	1484		
Lumineur Flux (A)	3500	1260	1400	1541	lm	
Luminous Flux (Φ_v)	4000	1307	1452	1597	Im	
	5000	1307	1452	1597		
	3000	115	127	140		
Luminous Dfficeou	3500	119	132	146		$I_f = 420 \text{mA}$ $t_p = 50 \ ^{\circ}\text{C}$
Luminous Efficacy	4000	124	137	151		
	5000	124	137	151		
	3000	2980	3045	3110	К	
CCT	3500	3360	3465	3570		
CC1	4000	3830	3985	4130		
	5000	4810	5028	5240		
Color Consistency (initial)		-	-	3	Mac Adam step	
Color Rendering Index (Ra)		80	83	-	-	
Operating Current (I _f)		-	420	540	mA	-
Operating Voltage (V _f)		22.68	25.20	27.72	Vdc	$I_{\rm f} = 420 \ mA$
Power Consumption		9.52	10.58	11.64	W	$t_p = 50 \ ^{\circ}\mathrm{C}$

Notes:

1) t_p : temperature twhich performance is specified; measured at "tc point".

Item	Nom. CCT		Rat	ting		Remark
i i i i i i i i i i i i i i i i i i i	(K)	Min	Тур.	Max	Unit	Kontark
	3000	1841	2045	2250		
Luminous Flux (Φ_v)	3500	1898	2109	2320	lm	
Lummous Flux (Φ_v)	4000	1941	2157	2373	1111	
	5000	1941	2157	2373		
	3000	115	128	141		
Luminous Efficacy	3500	119	132	145	lm/W	$I_f = 630 \text{ mA}$ $t_p = 50 \text{ °C}$
Lummous Efficacy	4000	121	135	148		
	5000	121	135	148		
	3000	2980	3045	3110	— К	
CCT	3500	3360	3465	3570		
CCI	4000	3830	3985	4130	K	
	5000	4810	5028	5240		
Color Consistency (initial)		-	-	3	Mac Adam step	
Color Rendering Index (Ra)		80	83	-	-	
Operating Current (I _f)		-	630	720	mA	-
Operating Voltage (V_f)		22.82	25.36	27.9	Vdc	${\rm I_f}=630~mA$
Power Consumption		14.38	15.98	17.58	W	$t_p = 50 \ ^{\circ}\mathrm{C}$

1) t_p : temperature at which performance is specified; measured at "tc point".

Item	Nom. CCT		Rat	ting		Remark
i com	(K)	Min	Тур.	Max	Unit	Romark
	3000	2043	2270	2497		
Luminous Flux (Φ_v)	3500	2132	2369	2606	lm	
Lummous Flux (Ψ_v)	4000	2214	2460	2706	1111	
	5000	2214	2460	2706	_	
	3000	122	135	149		
Luminous Efficacy	3500	127	141	155	Im/W	If = 700 mA t _p =50°C
Luminous Efficacy	4000	132	146	161		
	5000	132	146	161		
	3000	2980	3045	3110	— К	
CCT	3500	3360	3465	3570		
	4000	3830	3985	4130		
	5000	4810	5028	5240		
Color Consistency (initial)		-	-	3	MacAdam step	
Color Rendering Index (Ra)		80	83	-	-	
Operating Current (I _f)		-	700	1080	mA	-
Operating Voltage (V_f)		21.6	24.0	26.4	Vdc	If = 700 mA
Power Consumption		15.12	16.8	18.48	W	tp = 50 °C

1) t_p : temperature at which performance is specified; measured at "tc point".

Item	Nom. CCT		Rat	ing		Remark
	(K)	Min	Тур.	Max	Unit	Kontark
	3000	651	724	796		
Luning They (A)	3500	672	746	821		
Luminous Flux (Φ_v)	4000	692	769	846	lm	
	5000	692	769	846	_	
	3000	115	128	140		
Luminous Efficacy	3500	119	132	145	lm/W	$I_{t} = 450 \text{ mA}$ $t_{p} = 50^{\circ}\text{C}$
	4000	122	136	149		
	5000	122	136	149		
	3000	2980	3045	3110	— К	
CCT	3500	3360	3465	3570		
tti	4000	3830	3985	4130	K	
	5000	4810	5028	5240		
Color Consistency (initial)		-	-	3	Mac Adam step	
Color Rendering Index (Ra)		80	83	-	-	
Operating Current (I _f)		-	450	540	mA	-
Operating Voltage (V _f)		11.34	12.60	13.86	Vdc	$I_f = 450 \text{ mA}$
Power Consumption		5.10	5.67	6.24	W	$t_p = 50 \ ^{\circ}\mathrm{C}$

1) t_p : temperature at which performance is specified; measured at "tc point".

Item	Nom. CCT		Rat	ing		Remark
	(K)	Min	Тур.	Max	Unit	Remark
	3000	869	965	1062		
Luminous Flux (Φ_v)	3500	896	995	1095	lm	
Luminous Flux (Ψ_v)	4000	923	1026	1129		
	5000	923	1026	1129		
Luminous Efficacy	3000	115	128	141		
	3500	119	132	145		
	4000	122	136	149		$I_f = 300 \text{ mA}$ $t_p = 50 ^{\circ}\text{C}$
	5000	122	136	149		
	3000	2980	3045	3110	— К	
CCT	3500	3360	3465	3570		
	4000	3830	3985	4130		
	5000	4810	5028	5240		
Color Consistency (initial)		-	-	3	Mac Adam step	
Color Rendering Index (Ra)		80	83	-	-	
Operating Current (I_f)		-	300	360	mA	-
Operating Voltage (V _f)		22.68	25.20	27.72	Vdc	$I_{\rm f}=300\ mA$
Power Consumption		6.80	7.56	8.32	W	$t_p = 50 ^{\circ} \mathbb{C}$

1) t_p : temperature at which performance is specified; measured at "tc point".

2) Samsung maintains a measurement tolerance of: Luminous flux: ±5%, CRI: ±2.0, Voltage: ±0.3V, Power Consumption: ±0.3W

Item	Nominal*	Life	Max**	Unit
Temperature for V282A,	50 (t _p)	$70(t_{\rm p,\ 50})$	90(<i>t</i> _c)	°C
Temperature for V282B,	50(<i>t</i> _p)	70(<i>t</i> _{p, 50})	90(<i>t</i> _c)	°C
Temperature for V562A,	50(<i>t</i> _p)	70 $(t_{\rm p, 50})$	90(<i>t</i> _c)	°C
Temperature for V562B,	50(<i>t</i> _p)	70 $(t_{\rm p, 50})$	90(<i>t</i> _c)	°C
Temperature for V562C	50(<i>t</i> _p)	70 $(t_{\rm p, 50})$	90(<i>t</i> _c)	°C
Temperature for LT-VB22A,	50(<i>t</i> _p)	70 $(t_{\rm p, 50})$	90(<i>t</i> _c)	°C
Temperature for LT-VB22B,	50(<i>t</i> _p)	70 (<i>t</i> _{p, 50})	90(<i>t</i> _c)	°C
Temperature for LT-VB22C,	50(<i>t</i> _p)	70 $(t_{\rm p, 50})$	90(<i>t</i> _c)	°C

Notes:

* Temperature used to specify performance of the module (t_p) .

** Rated maximum temperature, highest permissible temperature to avoid safety risk (t_c) .

All temperatures are measured at the designated "tc point" as indicated on the module.

3. Structure and Assembly

a) Appearance

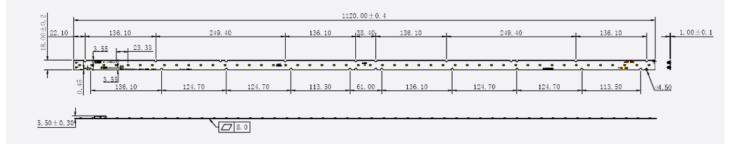
VB22A



b) Dimension

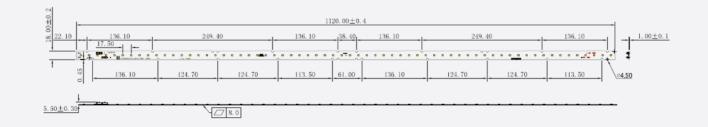
VB22A

Dimension	Specification	Tolerance	Unit
Module Length	1120	±0.4	mm
Module Width	18	±0.2	mm
Module Height	5.5	±0.3	mm
PCB Thickness	1.0	±0.1	mm
Module Weight	45.15	±1.5	g



VB22B

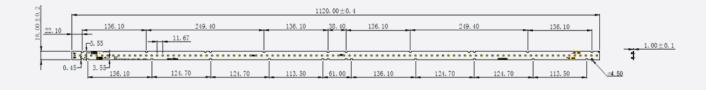
Dimension	Specification	Tolerance	Unit
Module Length	1120	±0.4	mm
Module Width	18	±0.2	mm
Module Height	5.5	±0.3	mm
PCB Thickness	1.0	±0.1	mm
Module Weight	45.25	±1.5	g





VB22C

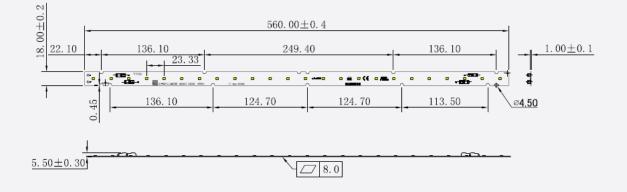
Dimension	Specification	Tolerance	Unit
Module Length	1120	±0.4	mm
Module Width	18	±0.2	mm
Module Height	5.5	±0.3	mm
PCB Thickness	1.0	±0.1	mm
Module Weight	49.1	±1.5	g



5. 50 ± 0. 30	
	28.0

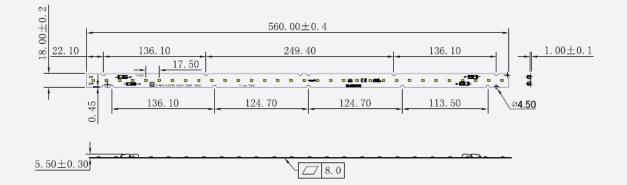
V562A

Dimension			Unit
Module Length	560	±0.4	mm
Module Width	18	±0.2	mm
Module Height	5.5	±0.3	mm
PCB Thickness	1.0	±0.1	mm
Module Weight	24.77	±1.5	g



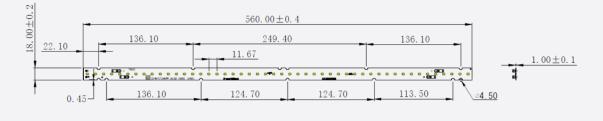
V562B

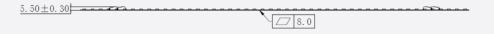
Dimension	Specification	Tolerance	Unit
Module Length	560	±0.4	mm
Module Width	18	±0.2	mm
Module Height	5.5	±0.3	mm
PCB Thickness	1.0	±0.1	mm
Module Weight	24.86	±1.5	g



V562C

Dimension	Specification	Tolerance	Unit
Module Length	560	±0.4	mm
Module Width	18	±0.2	mm
Module Height	5.5	±0.3	mm
PCB Thickness	1.0	±0.1	mm
Module Weight	24.94	±1.5	g

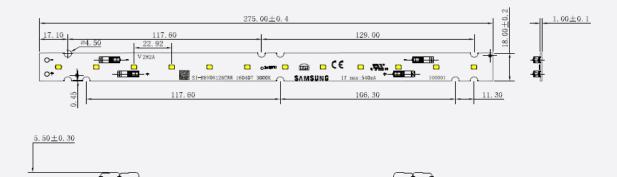






V282A

Dimension	Specification	Tolerance	Unit
Module Length	275	±0.4	mm
Module Width	18	±0.2	mm
Module Height	5.5	±0.3	mm
PCB Thickness	1.0	±0.1	mm
Module Weight	12.54	±1.5	g

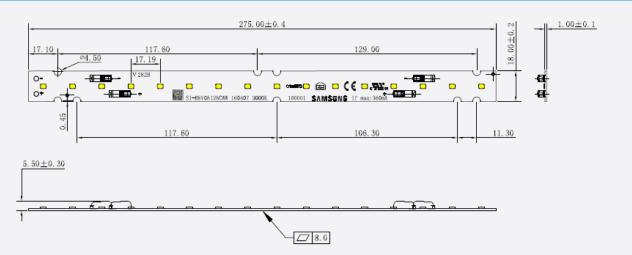


2 8.0



1

Dimension	Specification	Tolerance	Unit
Module Length	275	±0.4	mm
Module Width	18	±0.2	mm
Module Height	5.5	±0.3	mm
PCB Thickness	1.0	±0.1	mm
Module Weight	12.60	±1.5	g

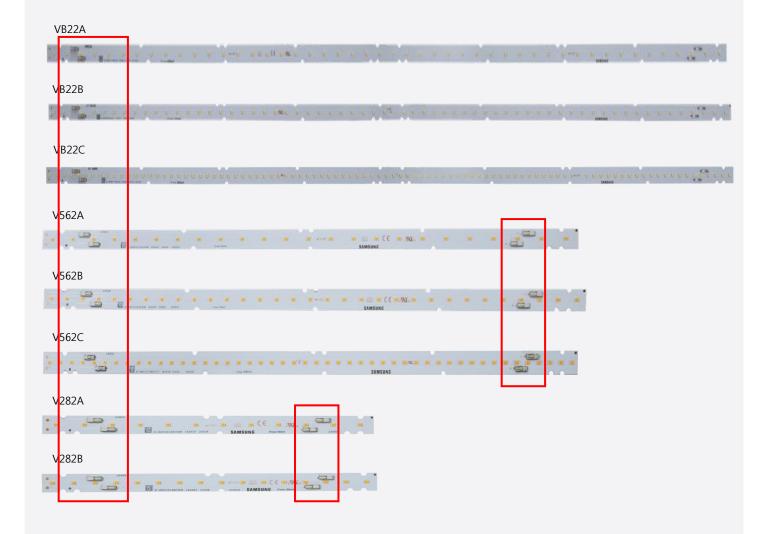


c) Assembly

Connectors on the board are provided for easy wiring with the LED driver and between modules

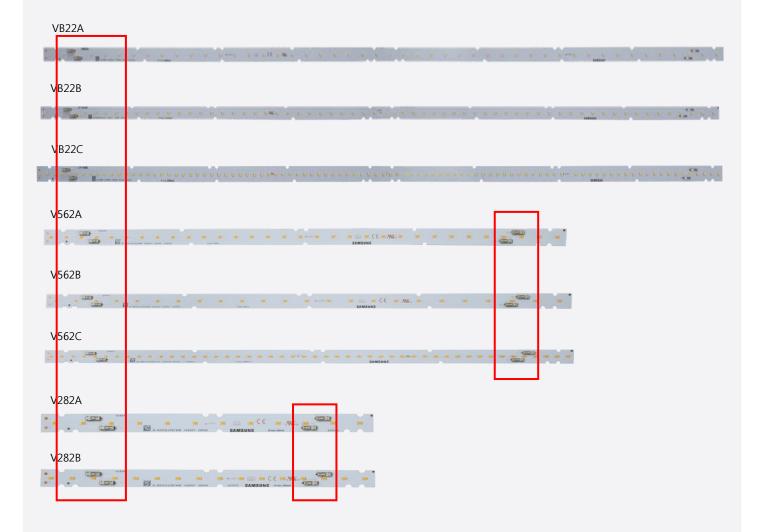
[Front connector]









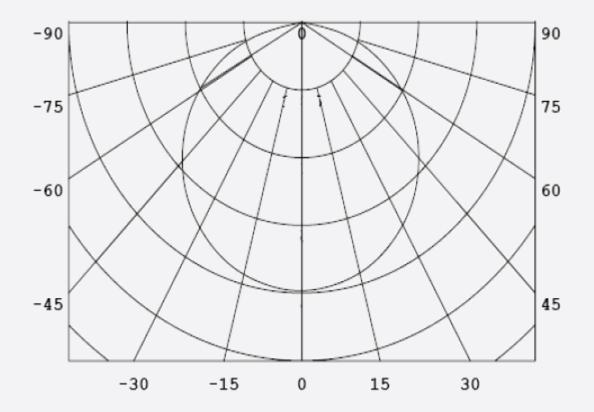


d) Structure

Item	Specification
LED	SMD2835 Middle power LED
PCB	Material: CEM-3,copperdouble layer
Connector	Reworkable poke-in connector type
Wire	18-22AWG; terminal strip length of 7.5-8.5mm

e) Light Distribution

Polar Intensity Diagram: Beam Angle120 $\pm 5^{\circ}$



21

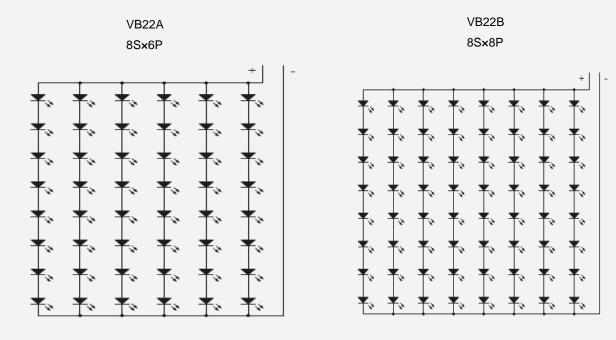
f) Thermal Management

Performance temperatures are measured on "tc point" as indicated on the module.

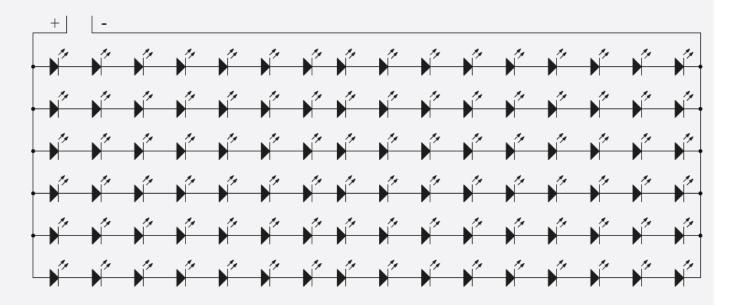


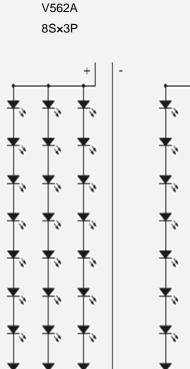
SAMSUNG

22



VB22C 16S×6P



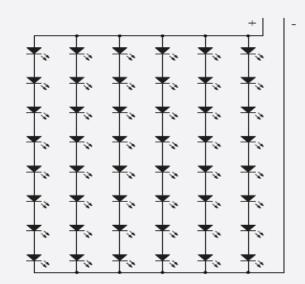




V562B

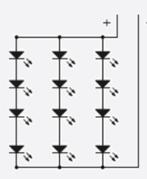
8S×4P

V562C 8S×6P



V282A 4Sx3P

V282B 8S×2P







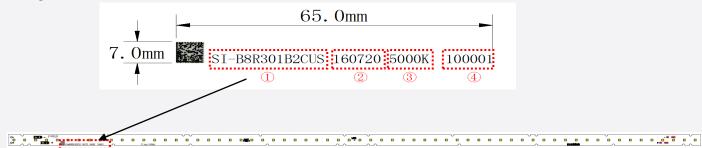
4. Certification and Declaration

Item	Compliant to	Remark
	ENEC	-
	VDE	-
Test & Certification	UL	E344519
	cUL	E344519
	RoHS	Hazardous Substance & Material
Declaration	REACH	Hazardous Substance & Material

5. Label Structure

a) Module Label LT-VB22A, LT-VB22B, LT-VB22C

[Printing Label]



[Information of Barcode]

① Model code: SI-B8**R**301B2CUS

R: V(3000K), U(3500K), T(4000K), R(5000K)

2 Date of manufacture:

3 Color temperature:

④Series number:

[QR CODE Information]

①Example:SI-B8R301B2CUS YYMMDD 5000K 100001

 $\textcircled{0}{34} digits: Modelcode(14) + Space(1) + SMTdate(6) + Space(1) + Color \ temperature(5) + Space(1) + Series \ number(6)$

Model CODE	SI-B8 <mark>V</mark> 221B2CUS
QRCODE Information	SI-B8 <mark>V</mark> 221B2CUS YYMMDD 5000K 100001

Model CODE	SI-B8 <mark>V</mark> 301B2CUS
QRCODE Information	SI-B8 V 301B2CUS YYMMDD 5000K 100001

Model CODE	SI-B8 <mark>V</mark> 341B2CUS
QRCODE Information	SI-B8 V 341B2CUS YYMMDD 5000K 100001

b) Box Label LT-VB22A, LT-VB22B, LT-VB22C

- 100mm x 50mm

Ex)



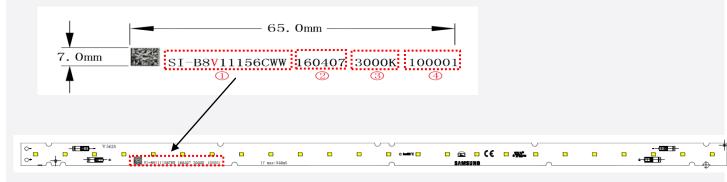


The lot number is composed of the following characters:

- 1 Product code
- 2 Lot ID
- ③ Place of origin
- (4) Quantity
- ⁽⁵⁾ Describe production week
- (6) Date of Issue

c) Module Label V282A, V282B, V562A, V562B, V562C

[Printing Label]



[Information of Barcode]

① Model code: SI-B8V11156CWW

V: V(3000K), U(3500K), T(4000K), R(5000K)

2 Date of manufacture:

③ Color temperature:

④Series number:

[QR CODE Information]

①Example: SI-B8V11156CWW YYMMDD 3000K 100001

②34digits:Modelcode(14)+Space(1)+SMTdate(6)+Space(1)+Color temperature(5)+Space(1)+Series number(6)

ModelCODE	SI-B8 V 06128CWW
QRCODE Information	SI-B8 V 06128CWW YYMMDD 3000K 100001

ModelCODE	SI-B8 <mark>V</mark> 08128CWW
QRCODE Information	SI-B8 V 08128CWW YYMMDD 3000K 100001

ModelCODE	SI-B8 <mark>V</mark> 11156CWW
QRCODE Information	SI-B8 V 11156CWW YYMMDD 3000K 100 001

ModelCODE	SI-B8 <mark>V</mark> 15156CWW		
QRCODE Information	SI-B8 V 15156CWW YYMMDD 3000K 100001		

ModelCODE	SI-B8 <mark>V</mark> 17156CWW			
QRCODE Information	SI-B8 V 17156CWW YYMMDD 3000K 100001			

d) Box Label V282A, V282B, V562A, V562B, V562C

- 100mm x 50mm

Ex)



The lot number is composed of the following characters:

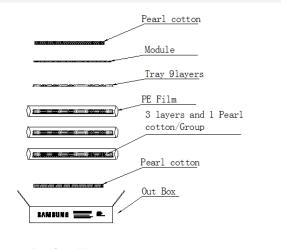
- 1 Product code
- (2) Lot ID
- ③ Place of origin
- (4) Quantity
- (5) Describe production week
- ⁽⁶⁾ Date of Issue



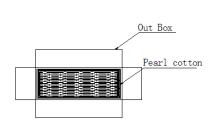
6. Packing Structure

a) Packing Structure For LT-VB22A, LT-VB22B, LT-VB22C

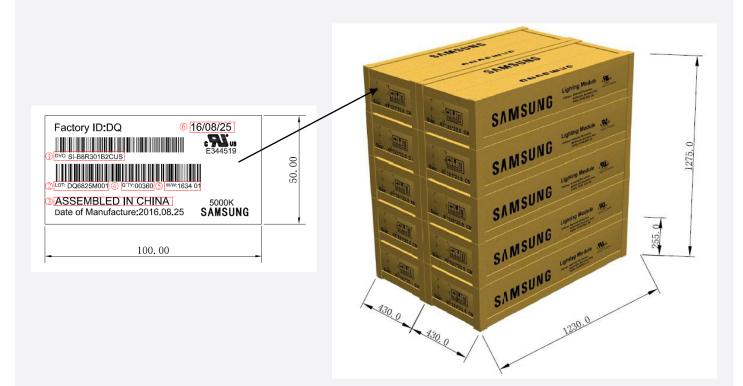
ARTICLE	TRAY	BOX	PALLET	REMARKS
				LT-VB22A
Quantity	40ea	360ea	3600ea	LT-VB22B
				LT-VB22C



Side View

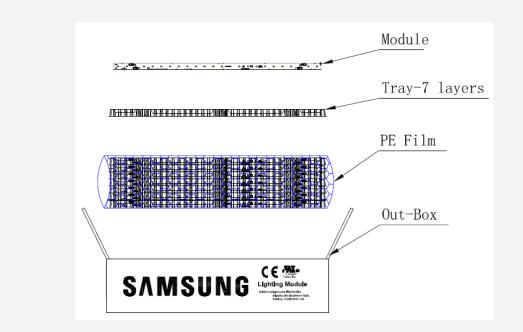


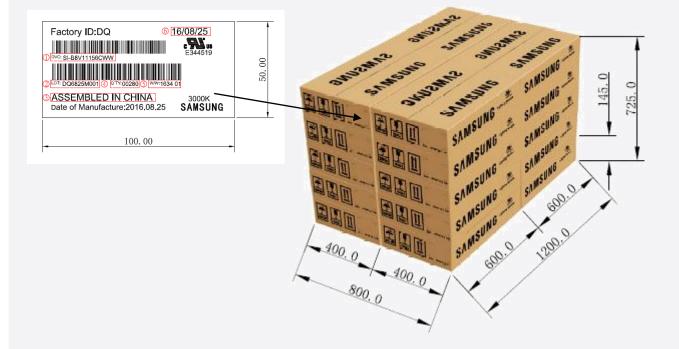




b)	Packing Structure	For	V282A,	V282B,	V562A,	V562B,	V562C
------------	--------------------------	-----	--------	--------	--------	--------	-------

ARTICLE	TRAY	BOX	PALLET	REMARKS
Quantity	80ea	560ea	11200ea	V282A,V282B
Quantity	40ea	280ea	5600ea	V562A,V562B , V562C





7. Precautions in Handling & Use

A. The LED Lighting Modules 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).Also when the LEDs are illuminating, operating current should be decided after considering the ambient maximum temperature.

B. Handling

To prevent the LED Lighting Modules from making any defectives, please handle the LED Lighting Modules with care as follows.

- (1) Don't drop the unit and don't give the unit any shocks.
- (2) Don't bend the PCB and don't touch the LED Resin.
- (3) Don't storage the Module in a dusty place or room.
- (4) Don't take the product apart.
- (5) Don't touch the LED and also PCB and other circuit parts of Module with your naked fingers or sharpness things.
- (6) Take care so that do not pull wire with hand in case of carries or moves LED Lighting Modules.

C. Cleaning

The LED Lighting Modules should not be used in any type of fluid such as water, oil, organic solvent, etc. It is recommended that IPA(Isopropyl Alcohol) be used as a solvent for cleaning the LED Lighting Modules. 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 Lighting Modules by the ultrasonic. Before cleaning, a pre-test should be done to confirm whether any damage to the LED Lighting Modules will occur.

D. Static Electricity

Static electricity or surge voltage damages the LED Lighting Modules. Please keep the working process anti-static electricity condition to prevent the Lighting from destroying, as following.

- (1) Anyone who handles the unit should be well grounded.(earth ring or anti-static glove)
- (2) Anyone who handles the unit should wear anti-electrostatic working clothes.
- (3) All kinds of device and instruments, such as working table, measuring instruments and assembly jigs in your production lines should be well grounded.

E. Storage

The LED Lighting Modules must be stored to insert a package of a moisture absorbent material (silica gel) in a box.

F. Others

If over voltage which exceeds the absolute maximum rating is applied to LED Lighting Modules.

It will cause damage Circuits(that LED is included) and result in destruction.

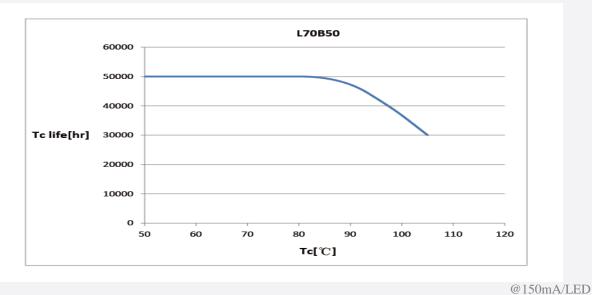
Do not directly look into lighted LED with naked eyes.

Please use this product within 5 months, which is kept in its original packaging unopened when stocked

Please be careful when taking a product out from packaging.

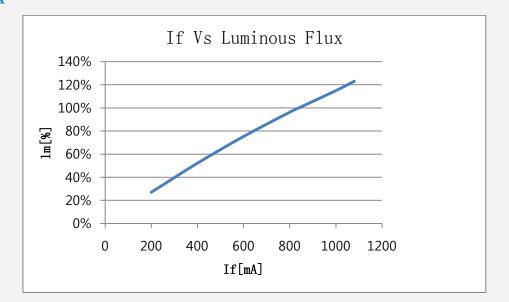
APPENDIX 1.Tcvs Lifetime

V282A, V282B, V562A, V562B, V562C, LT-VB22A, LT-VB22B, LT-VB22C

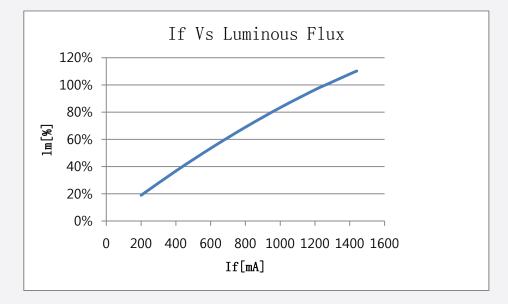


APPENDIX 2.Irvs Luminous Flux

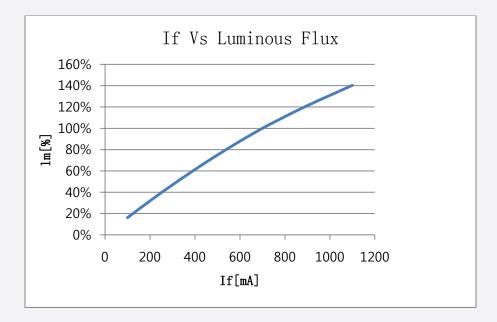
(a) LT-VB22A



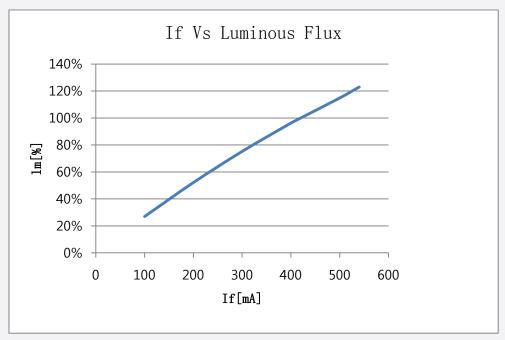
(b) LT-VB22B



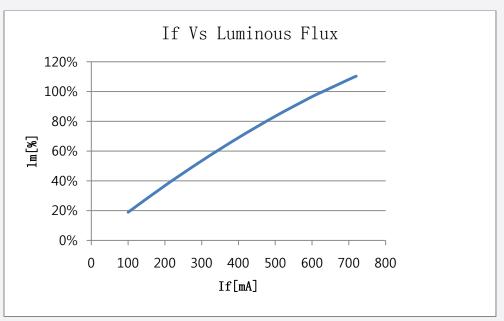
(c) LT-VB22C



(d) LT-V562A

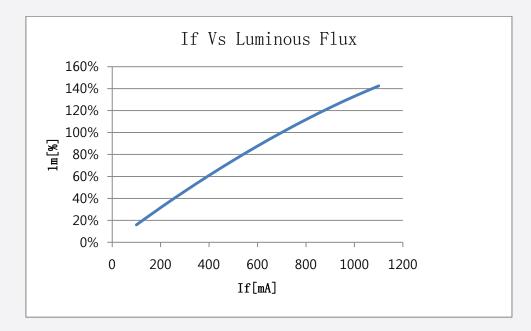


(e) LT-V562B

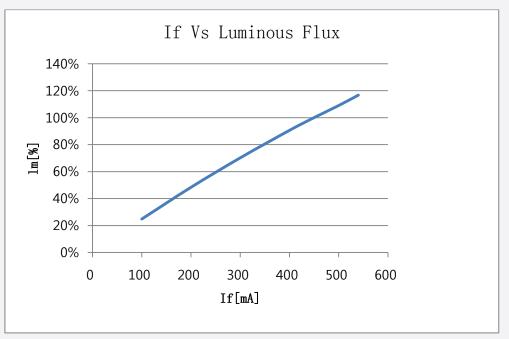




(f) LT-V562C

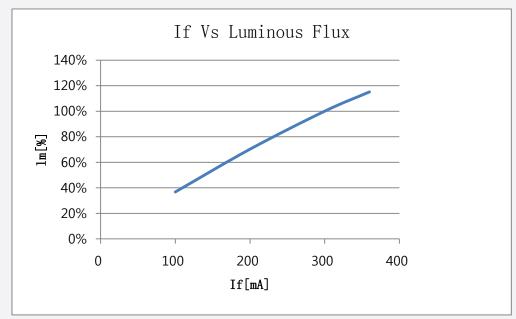


(g) LT-V282A



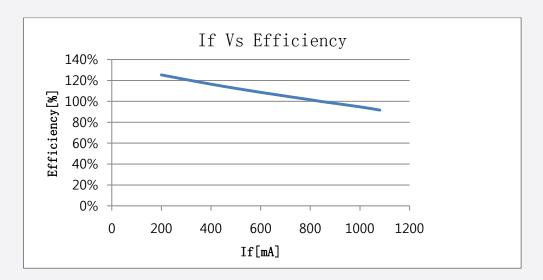


(h) LT-V282B



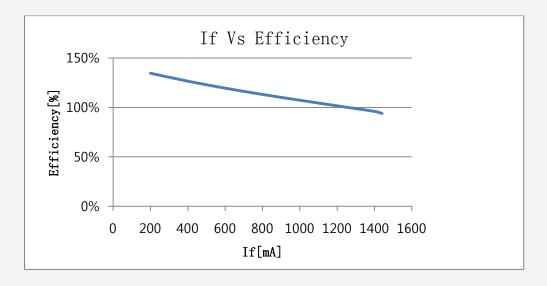
APPENDIX 3. If vs Efficiency

(a) LT-VB22A

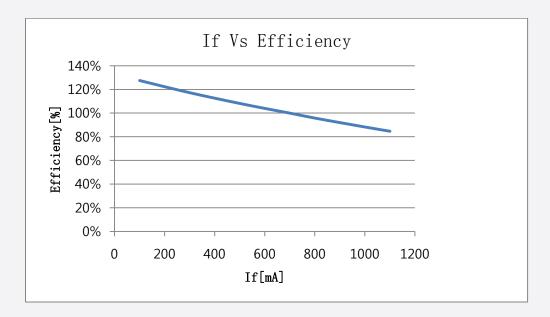




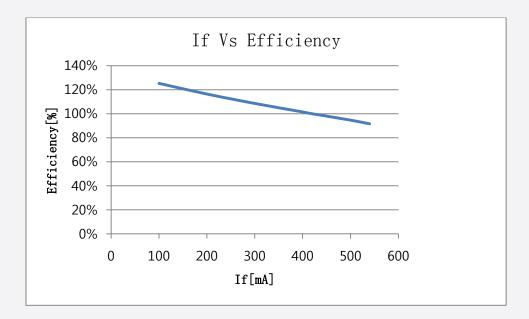
(b) LT-VB22B



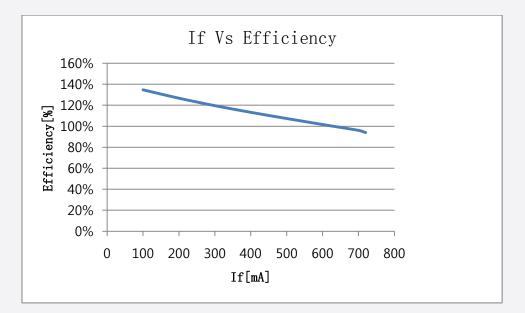
(c) LT-VB22C



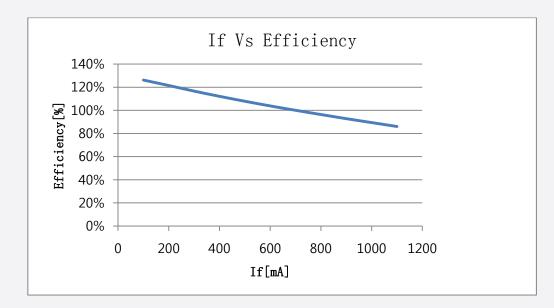
(d) LT-V562A



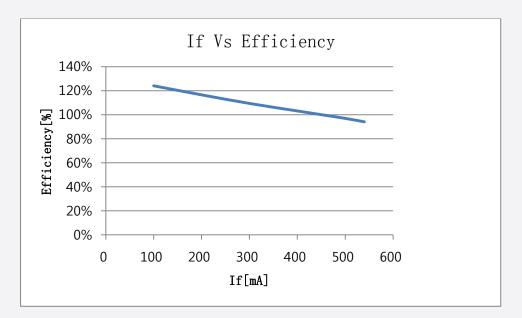
(e) LT-V562B



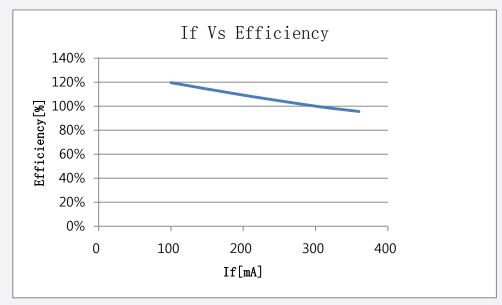
(f) LT-V562C



(g) LT-V282A



(h) LT-V282B



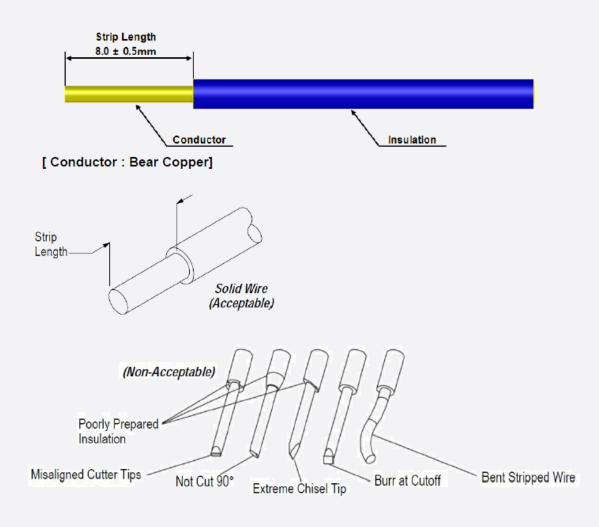
APPENDIX 4. APPLICABLE SOLID WIRES

A. Applicable solid wires

Wire Range AWG NO.	Number of Conductors / Diameter of a conductors (NO. / mm)	Insulation Diameter (mm)	Conductor Type
24	1 / 0.51	1.35	
22	1 / 0.64	1.48	Solid
20	1 / 0.81	1.65	5010
18	1 / 1.02	1.86	

 \times outside insulation diameter Φ 2.1mm Max

B. Wire strip length



Legalandadditionalinformation.

About Samsung Electronics Co., Ltd.

Samsung Electronics Co., Ltd. is a global leader in technology, opening new possibilities for people everywhere. Through relentless innovation and discovery, we are transforming the worlds of TVs, smart phones, tablets, PCs, cameras, home appliances, printers, LTE systems, medical devices, semiconductors and LED solutions. We employ 286,000 people across 80 countries with annual sales of US\$216.7 billion. To discover more, please visit www.samsungled.com.

Copyright © 2017 Samsung Electronics Co., Ltd. All rights reserved. Samsung is a registered trademark of Samsung Electronics Co., Ltd. Specifications and designs are subject to change without notice. Non-metric Weightsandmeasurements are approximate. All data were deemed correct at time ofcreation. Samsung is not liable for errors or omissions. All brand, product, service names and logos are trademarks and/or registered trademarks of their respective owners and are hereby recognized and acknowledged.

Samsung Electronics Co., Ltd. 95, Samsung 2-ro Giheung-gu Yongin-si, Gyeonggi-do, 446-711 KOREA

www.samsungled.com