

PRODUCT SELECTION GUIDE

2023 Q2

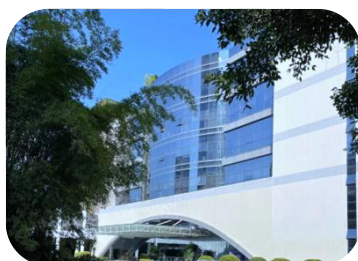




Company Profile

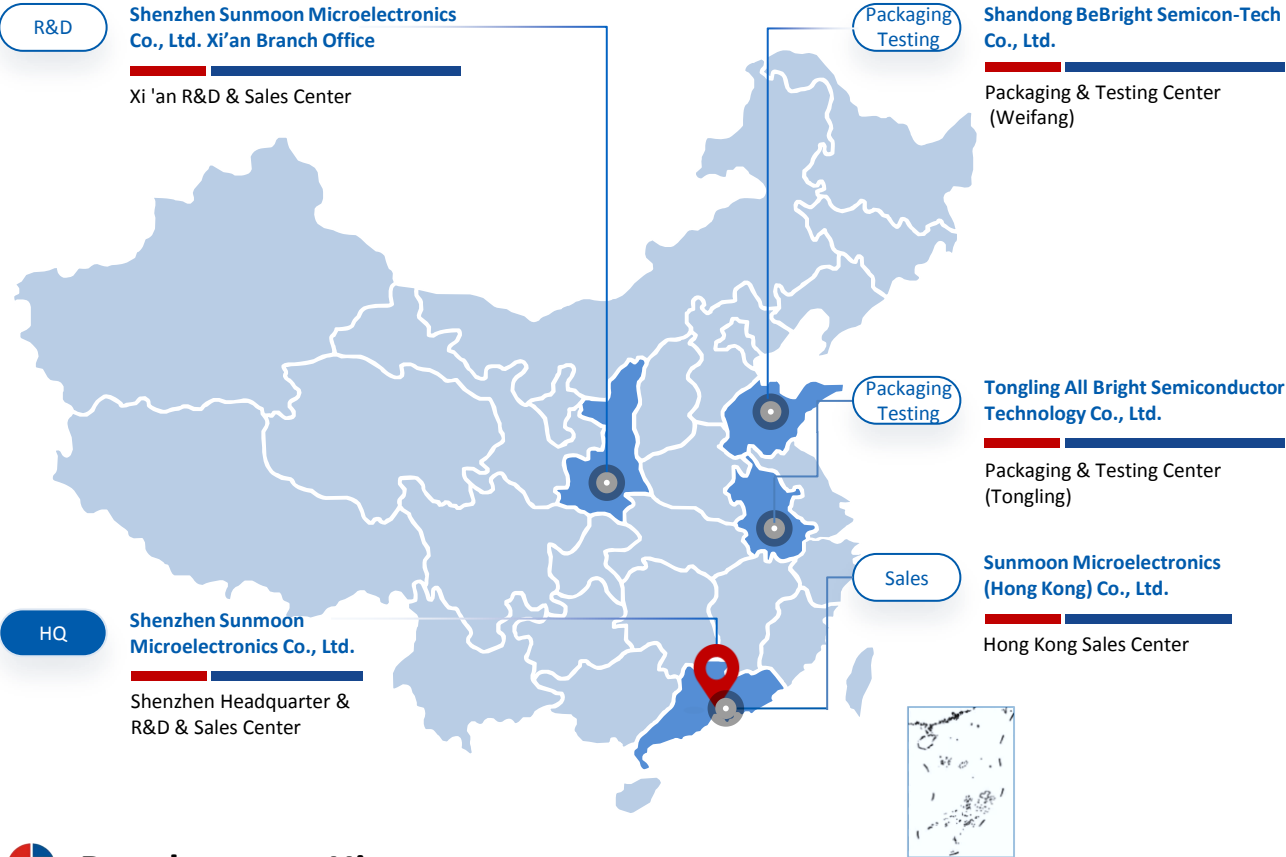
Shenzhen Sunmoon Microelectronics Co., Ltd. (688699.SH) was established in October 2003. It is a high-tech enterprise specializing in integrated circuit research, design, packaging, testing and sales.

Since its establishment, the company has focused on the field of digital-analog hybrid and analog integrated circuits. Its products mainly include but not limited to display driver chips, linear power supplies, power management chips, and are widely used in MiniLED and MicroLED covering LED display screens, smart landscapes, intelligent lighting, electronic products and equipment. Sunmoon has gathered a vigorous, positive R&D and management team. Most of the engineering and technical personnel have more than 15 years of experience in the IC industry. At present, the company has a provincial engineering technology center, a provincial and ministerial production and research base, and a municipal engineering laboratory. Sunmoon now has more than 400 intellectual property rights and has passed ISO9001:2015 quality management system and GB/T29490-2013 enterprise intellectual property management system certification. Sunmoon adheres to the orientation of "innovation, quality, refinement, and mutual benefit", and is committed to building a well-known brand at home and abroad.

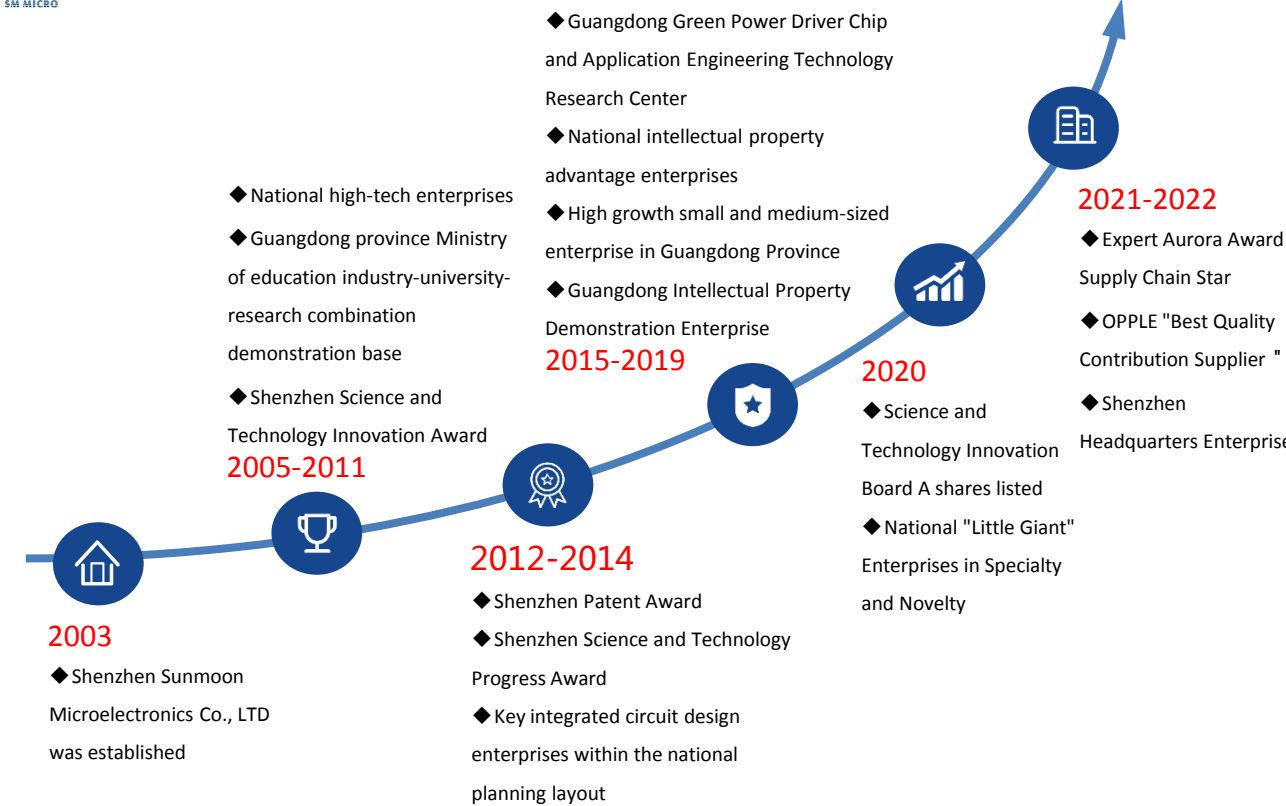




Company Composition



Development History





Qualifications And Honors



Qualifications And Honors

- National "Little Giant" Enterprises in Specialty and Novelty
- National Intellectual Property Advantage Enterprise
- National High-tech Enterprise
- Top 100 Software and Integrated Circuit Design Enterprises in Guangdong Province
- Shenzhen Famous Brand
- Shenzhen Science and Technology Progress Award



Intellectual property

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Platform carrier class

- Guangdong Green Power Driver Chip and Application Engineering Technology Research Center
- Guangdong Province Ministry of Education Industry-university-research Combination Demonstration Base



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LED Display Constant Current Driver

Part Number	Introduction	Channels	Iout	Current Gain	Energy Saving	Package	Application
SM16306	Energy saving general constant current	16CH	3-32mA	-	Low inflection point	QSOP24	Display above P3
SM16208	Dual latch driver	16CH	3-32mA	-	-	QSOP24	P2 or higher display
SM16238	Multi-function dual latch driver	16CH	1-32mA	Level 32 adjustable	Low inflection point	QSOP24 QFN24	P2 or higher display
SM16218	Grille screen driver	18CH	3-30mA	Level 32 adjustable	-	QFN24 (3*4)/(2*4)	Grille screen
SM16188	Monochrome constant current driver	4*8LED	18-38mA	Level 16 adjustable	-	SOP16	Monochrome display
SM16288	Monochrome constant current driver	4*16LED	15-29mA	Level 8 adjustable	-	QSOP24	Monochrome display

LED Display PWM Constant Current Driver

Part Number	Disc	Output Channels	Iout	Scan	Refresh Rate	PWM	Energy Saving Method	Error Detection	Package	Application
SM16609	Ultra-small spacing common cathode driver	48CH+16NMOS	0.2-10mA	1-64 scan	>3840Hz	13-16digits	Intelligent energy saving	Open/short circuit detection + return	QFN76 (9*9)	Display below P2
SM16509	Ultra-small spacing common cathode driver	16CH	0.6-16mA	1-64 scan	>3840Hz	13-16digits	Intelligent energy saving	Open/short circuit detection + return	QSOP24/QFN24	Display below P2
SM16389	Ultra-small spacing common anode driver	16CH	0.6-16mA	1-64 scan	>3840Hz	13-16digits	Intelligent energy saving	Open/short circuit detection + return	QSOP24/QFN24	Display above P1
SM16380	Small spacing common anode driver	16CH	0.6-16mA	1-64 scan	>3840Hz	12-14digits	Dynamic energy saving	open circuit detection	QSOP24/QFN24	P1.8 or higher display
SM16169	Outdoor common anode driver	16CH	2-32mA	1-64 scan	>3840Hz	14digits	Dynamic energy saving	open circuit detection	QSOP24/QFN24	Outdoor P2.5 above display
SM16318	Grille screen driver	18CH	1-33mA	1-64 scan	>3840Hz	14digits	Dynamic energy saving	open circuit detection	QFN24(3*4)/(2*4)	Grille screen

LED Display Row Driver

Part Number	Introduction	Channels	Iout	Ron	Decoding Mode	Shadow Cancellation Function	Package
SM5166	common anode row driver	8CH	3.2A	120mΩ	138 decoding	Fixed blanking voltage	SOP16
SM5368	common anode row driver	8CH	3.2A	120mΩ	Serial decoding	Blanking voltage is adjustable	SOP16
SM5369	common anode row driver	16CH	3.2A	120mΩ	Serial decoding	Blanking voltage is adjustable	QSOP24/QFN24
SM5388	common cathode row driver	8CH	3.2A	120mΩ	Serial decoding	Blanking voltage is adjustable	SOP16/QFN16
SM5188	common cathode row driver	8CH	3.2A	120mΩ	138 decoding	Blanking voltage is adjustable	SOP16/QFN16

Mini LED Backlight Driver

Part Number	Disc	Output Channels	Iout	Scan	BV_OUT	Refresh Rate	Dimming Level	Voltage Feedback	Package	Application
SM6610	Highly integrated Mini LED backlight driver	48CH	4-100mA	1-8 scan	35V	3840Hz	14digits (PWM) 12digits (AM)	support	QFN76 (9*9)	TV/MNT

Dot Matrix LED Driver

Part Number	Interface	VDD	Channels	Output Format	Iout	Gray Level	Dimming Type	Dimming Mode	Output Frequency	Package	Application
SM22061	IIC/SPI	4.5-5.5V	18	2*8*9 (144LED)	6-33mA	256	whole situation	PWM	2.5-10K	SOP28	Matrix screen Electric display panel
SM22061A	IIC/SPI	4.5-5.5V	18	2*8*9 (144LED)	6-33mA	16	whole situation	PWM	2.5-10K	SOP28	Matrix screen Electric display panel
SM22062	IIC/SPI	4.5-5.5V	12	11*12 (132LED)	6-33mA	256	single	PWM	2.5-10K	TSOP22	Atmosphere lamp Bluetooth speaker
SM22063	IIC/SPI	4.5-5.5V	17	16*17 (272LED)	6-33mA	16	whole situation	PWM	2.5-10K	SOP28	Matrix screen Electric display panel

Digital Tube Driver

Part Number	Grid*Seg	VDD	Protocol	Key	Package	Application
SM1620B	4 digits *9 segments—7 digits *10 segments	3.3-5.5V	Three wire	6*1	SOP20	LED digital display for STB and small household appliances
SM1668	7 digits *10 segments	3.3-5.5V	Three wire	10*2	SOP24	LED digital display for STB and small household appliances
SM1668S	7 digits *10 segments	3.3-5.5V	Three wire	10*2	SSOP24	LED digital display for STB and small household appliances
SM1628C	4 digits *13 segments—7 digits *10 segments	3.3-5.5V	Three wire	10*2	SOP28	LED digital display for STB and small household appliances
SM1623B	4 digits *14 segments—7 digits *11 segments	3.3-5.5V	Three wire	10*3	SOP32	LED digital display for STB and small household appliances
SM1612	4 digits *13 segments—7 digits *10 segments	3.3-5.5V	IIC	10*2	SOP24	LED digital display for STB and small household appliances
SM1642	4 digits *8 segments	3.3-5.5V	IIC	-	SOP16	LED digital display for STB and small household appliances
SM1650PG	4 digits *8 segments	2.7-5.5V	IIC	4*7	SOP16	LED digital display for STB and small household appliances
SM1616	16 digits *8 segments	3.3-5.5V	IIC	-	SOP28	LED digital display for STB and small household appliances
SM1616S	16 digits * 8 segments	3.3-5.5V	IIC	-	QSOP28	LED digital display for STB and small household appliances

DISPLAY DRIVER

AC-DC Step Down (Non-isolated) Driver

Part Number	Topology	Vout	Iout	Pstandby	Accu.	Fosc_max	Mode	Vds	Package	Application
SM6035A-3/5	Buck/Buck-Boost	3.3/5V	60mA	<50mW	±5%	33KHz	PWM	500V	SOT23-3	Bluetooth and other intelligent module power supply
SM6035	Buck/Buck-Boost	3.3/5V	300mA	<50mW	±5%	33KHz	PWM	500V	SOP8	WIFI and other intelligent module power supply
SM7033M	Buck/Buck-Boost	Adj	100mA	<200mW	±3%	39KHz	PWM	500V	SOT23-5	Rice cooker, wall breaker and other household appliances
SM7033P	Buck/Buck-Boost	Adj	150mA	<200mW	±3%	39KHz	PWM	500V	SOP8	Rice cooker, wall breaker and other household appliances
SM7035M	Buck/Buck-Boost	Adj	200mA	<200mW	±3%	49KHz	PWM	500V	SOT23-5	Health pot, coffee machine and other household appliances
SM7035P	Buck/Buck-Boost	Adj	250mA	<200mW	±3%	49KHz	PWM	500V	SOP8	Health pot, coffee machine and other household appliances
SM7015NA	Buck/Buck-Boost	12/18V	150mA	<100mW	±5%	66KHz	PWM	500V	SOP8	Electric pressure cookers and other small household appliances
SM7025	Buck/Buck-Boost	12/18V	150mA	<100mW	±5%	60KHz	PWM	650V	SOP8	Electric pressure cookers and other small household appliances
SM7055	Buck/Buck-Boost	12/18V	200mA	<100mW	±5%	60KHz	PWM	650V	DIP8	Electric pressure cookers and other small household appliances
SM7055-12	Buck/Buck-Boost	12V	200mA	<100mW	±5%	60KHz	PWM	650V	DIP8	Electric pressure cookers and other small household appliances
SM7055-12	Buck/Buck-Boost	12V	250mA	<100mW	±5%	60KHz	PWM	650V	TO252-2	Electric pressure cookers and other small household appliances
SM7055-18	Buck/Buck-Boost	18V	200mA	<100mW	±5%	60KHz	PWM	650V	DIP8	Electric pressure cookers and other small household appliances
SM7055-18	Buck/Buck-Boost	18V	250mA	<100mW	±5%	60KHz	PWM	650V	TO252-2	Electric pressure cookers and other small household appliances
SM7075P	Buck/Buck-Boost	12/18V	300mA	<120mW	±5%	45KHz	PWM	650V	SOP8	Electromagnetic oven and other small household appliances
SM7075	Buck/Buck-Boost	12/18V	300mA	<120mW	±5%	45KHz	PWM	650V	DIP8	Electromagnetic oven and other small household appliances
SM7075-12	Buck/Buck-Boost	12V	300mA	<120mW	±5%	45KHz	PWM	650V	DIP8 TO252-2	Electromagnetic oven and other small household appliances
SM7075-18	Buck/Buck-Boost	18V	300mA	<120mW	±5%	45KHz	PWM	650V	DIP8 TO252-2	Electromagnetic oven and other small household appliances

AC-DC Step Down (SSR) Driver

Part Number	Topology	Pout	Pstandby	HV_mos	Accu.	Fosc_max	Mode	Vds	Package	Application
SM7012	SSR/Buck/Buck-Boost	5W	<120mW	Inside	±1%	60KHz	PWM	650V	SOP8	Power adapters, small household appliances
SM7012	SSR/Buck/Buck-Boost	8W	<120mW	Inside	±1%	60KHz	PWM	650V	DIP8	Power adapters, small household appliances
SM7022	SSR/Buck/Buck-Boost	5W	<120mW	Inside	±1%	60KHz	PWM	650V	SOP8	Power adapters, small household appliances
SM7022	SSR/Buck/Buck-Boost	12W	<120mW	Inside	±1%	60KHz	PWM	650V	DIP8	Power adapters, small household appliances
SM8022BS	SSR	20W	<60mW	Inside	±1%	66KHz	PFM/PWM	600V	DIP8	Power adapter
SM8023S	SSR	36W	<60mW	External	±1%	66KHz	PFM/PWM	-	SOT23-6	Power adapter
SM8013C	SSR	36W	<300mW	External	±1%	65KHz	PFM/PWM	-	DIP8 SOT23-6	Power adapter
SM8013F	SSR	40W	<60mW	External	±1%	66KHz	PFM/PWM	-	SOT23-6	Power adapter
SM8015	SSR	75W	<300mW	External	±1%	66KHz	PFM/PWM	-	SOP8 SOT23-6	Power adapter

AC-DC Step Down (PSR) Driver

Part Number	Topology	CC/CV	Pout	Pstandby	HV_mos	Accu.	Fosc_max	Mode	Vds	Package	Application
SM7205P	PSR	CV	5W	<120mW	Inside	±3%	98KHz	PFM	650V	SOP8	Adapter, standby power supply
SM7205	PSR	CV	7W	<120mW	Inside	±3%	98KHz	PFM	650V	DIP8	Adapter, standby power supply
SM7503P	PSR	CV+CC	3W	<120mW	Inside	±3%	63KHz	PFM	650V	SOP8	Adapter, standby power supply
SM7505P	PSR	CV+CC	5W	<120mW	Inside	±3%	63KHz	PFM	650V	SOP8	Adapter, standby power supply
SM7215P	PSR	CV+CC	5W	<100mW	Inside	±3%	ADJ	PFM	700V	SOP8-7	Charger, LED lighting
SM8212	PSR	CV+CC	10W	<150mW	Inside	±3%	ADJ	PFM	650V	DIP8	Charger, LED lighting
SM8513	PSR	CV+CC	-	<120mW	External	±5%	63KHz	PFM	-	SOP8 SOT23-6	Charger, LED lighting

DC-DC Step Down (BUCK) Driver

Part Number	Vin	Iout	Vfb	IQ	Accu.	Fosc	Mode	Sync	Package	Application
SM3011	2.5-5.5V	2.0A	0.6V	35uA	±2%	1.5MHz	ACOT	Y	SOT23-6	Display panel FPGA power supply
SM3025NA	5-28V	1.5A	0.8V	400uA	±2%	150KHz	CM	Y	SOT23-6	LCD TV and other equipment
SM3026NYA	5-36V	2.0A	0.8V	400uA	±2%	150KHz	CM	N	SOT23-6	Routers, STB
SM3026NYB	5-36V	1.5A	0.8V	400uA	±2%	150KHz	CM	N	SOT23-6	Distributed power supply
SM3026TB	4.5-36V	1.2A	0.9V	1000uA	±1%	500KHz	CM	Y	SOT23-6	Portable charging device
SM3026NYC	5-36V	1.0A	0.8V	400uA	±2%	150KHz	CM	N	SOT23-6	Distributed power supply
SM3026NA	5-36V	1.0A	0.8V	400uA	±2%	150KHz	CM	Y	SOT23-6	Portable charging device
SM3027NYA	5-42V	1.0A	0.8V	400uA	±2%	150KHz	CM	N	SOT23-6	Distributed power supply
SM3027NA	5-42V	0.6A	0.8V	400uA	±2%	150KHz	CM	Y	SOT23-6	Portable charging device
SM3027NC	5-42V	0.3A	0.8V	400uA	±2%	150KHz	CM	Y	SOT23-6	SCM power supply
SM3027ND	5-42V	0.15A	0.8V	400uA	±2%	150KHz	CM	Y	SOT23-6	Battery power supply equipment
SM3027TA	4.5-55V	0.6A	0.8V	250uA	±1%	150KHz	CM	Y	SOT23-6	Landscape lighting, power meter
SM3028NA	5-60V	0.6A	0.8V	400uA	±2%	150KHz	CM	Y	SOT23-6	Landscape lighting, power meter
SM3028NB	5-60V	0.3A	0.8V	400uA	±2%	150KHz	CM	Y	SOT23-6	SCM power supply
SM3028NC	5-60V	0.15A	0.8V	400uA	±2%	150KHz	CM	Y	SOT23-6	Replace high voltage LDO

DC-DC Step Up (BOOST) Driver

Part Number	Vin	Vout_max	Current limit	IQ	Accu.	Fosc	Mode	Sync	Package	Application
SM3001	3-24V	28V	4A	100uA	±2%	1.2MHz	CM	N	SOT23-6	Battery power supply equipment, etc

POWER MANAGEMENT

LDO

Part Number	Vin_max	Vout	Iout	IQ	Accu	Package	Application
SM1117C-33	15V	3.3V	800mA	2mA	±2%	SOT223	LCD TV, modem
SM1117-XX	20V	1.2-5V/ADJ	1000mA	2mA	±2%	SOT223, SOT89-3, TO252-2	LCD TV, modem
SM13XX/T	36V	2.8-5V	200mA	2.5uA	±2%	SOT23-3, SOT89-3	Communication equipment, audio/video equipment
SM13XXH/HT	40V	2.8-5V	150mA	4uA	±2%	SOT23-3, SOT89-3	Communication equipment, audio/video equipment

POWER MANAGEMENT

High Voltage Linear Constant Current

Part Number	Channels	BV_OUT	Iout_max	Iout Precision	Pin	PF	Tsc	Package	Application	Feature
SM1082G	1	500V	90mA	± 6%	12W	>0.5	145℃	ESOP8	Filament lamp, bulb lamp, down lamp	High OTP
SM1082G	1	500V	90mA	± 6%	9W	>0.5	145℃	SOT89-3	Filament lamp, bulb lamp, down lamp	High OTP
SM1082D	1	500V	90mA	± 6%	12W	>0.5	125℃	ESOP8	Filament lamp, bulb lamp, down lamp	Low OTP
SM1082D	1	500V	90mA	± 6%	9W	>0.5	125℃	SOT89-3	Filament lamp, bulb lamp, down lamp	Low OTP
SM2082GA	1	500V	50mA	± 4%	7W	>0.5	145℃	SOT89-3	Filament lamp, bulb lamp, down lamp	Small current, small package
SM2082EAS	1	500V	50mA	± 4%	9W	>0.5	145℃	ESOP8	Filament lamp, bulb lamp, down lamp	Small current
SM2082D	1	500V	100mA	± 4%	9W	>0.5	135℃	SOT89-3	Filament lamp, bulb lamp, down lamp	Low OTP
SM2082D	1	500V	100mA	± 4%	16W	>0.5	135℃	TO252-2	Filament lamp, bulb lamp, down lamp	Low OTP
SM2082D[C]	1	500V	90mA	± 5%	9W/16W	>0.5	135℃	SOT89-3 TO252-2	Filament lamp, bulb lamp, down lamp	Low OTP
SM2082D[H]	1	500V	120mA	± 4%	9W/16W	>0.5	135℃	SOT89-3 TO252-2	Filament lamp, bulb lamp, down lamp	Low OTP
SM2082EDS	1	500V	100mA	± 4%	12W	>0.5	135℃	ESOP8	Filament lamp, bulb lamp, down lamp	Low OTP
SM2082G	1	500V	100mA	± 4%	9W	>0.5	145℃	SOT89-3	Filament lamp, bulb lamp, down lamp	High OTP
SM2082G	1	500V	100mA	± 4%	16W	>0.5	145℃	TO252-2	Filament lamp, bulb lamp, down lamp	High OTP
SM2082G[C]	1	500V	90mA	± 5%	9W/16W	>0.5	145℃	SOT89-3 TO252-2	Filament lamp, bulb lamp, down lamp	High OTP
SM2082EGS	1	500V	100mA	± 4%	12W	>0.5	145℃	ESOP8	Filament lamp, bulb lamp, down lamp	High OTP
SM2082EHD	1	500V	140mA	± 4%	9W	>0.5	135℃	ESOP8	Filament lamp, bulb lamp, down lamp	High current
SM2082EDH[J]	1	700V	100mA	± 4%	12W	>0.5	135℃	ESOP8	Projection lamp, mining lamp	700V high reliability
SM2082EAH	1	800V	50mA	± 4%	7W	>0.5	145℃	ESOP8	Filament lamp, bulb lamp, down lamp	800V high reliability
SM2082ED	2	500V	100mA/100mA	± 4%	15W	>0.5	135℃	ESOP8	Filament lamp, bulb lamp, down lamp	Double channel, low OTP
SM2082EG	2	500V	100mA/100mA	± 4%	15W	>0.5	145℃	ESOP8	Filament lamp, bulb lamp, down lamp	Double channel, high OTP
SM2082EG[H]	2	500V	120mA/120mA	± 4%	15W	>0.5	145℃	ESOP8	Filament lamp, bulb lamp, down lamp	Dual channel, high current
SM2086[S]	2	500V	65mA/70mA	± 5%	10W	>0.5	145℃	ESOP8	Bulb light, down light	Wide voltage
SM2086EK	2	700V	80mA/100mA	± 5%	10W	>0.5	140℃	ESOP8	Bulb light, down light	Wide voltage, high reliability
SM2255EH	5	700V	50mA/60mA/80mA/100mA/115mA	± 5%	10W	>0.9	145℃	ESOP8	Projection lamp, mining lamp	High reliability, low THD

LIGHTING DRIVER

High Voltage Linear Constant Power

Part Number	Channels	BV_OUT	Iout_max	Iout Precision	Pin	PF	Tsc	Package	Application	Feature
SM2091EKG	1	500V	90mA	± 4%	10W	>0.5	145℃	ESOP8	Bulb light, down light, LED light source	Single segment constant power
SM2092E	1	500V	100mA	± 4%	10W	>0.5	145℃	ESOP8	Bulb light, down light, LED light source	Single segment constant power
SM2251KDS	1	700V	115mA	± 5%	10W	>0.7	135℃	ESOP8	Bulb lamp, projection lamp, mining lamp	High reliability
SM2251EKD	1	700V	95mA	± 5%	10W	>0.7	135℃	ESOP8	Bulb lamp, projection lamp, mining lamp	High reliability
SM2251EKG	1	700V	95mA	± 5%	10W	>0.7	145℃	ESOP8	Bulb lamp, projection lamp, mining lamp	High reliability
SM2251NH	1	700V	115mA	± 5%	12W	>0.7	145℃	TO252-2	Bulb lamp, projection lamp, mining lamp	High reliability

Part Number	Channels	BV_OUT	Iout_max	Iout Precision	Pin	PF	Tsc	Package	Application	Feature
SM2186E	2	500V	120mA/120mA	± 5%	12W	>0.5	145℃	ESOP8	Bulb light, down light, LED light source	Wide voltage
SM2186ED	2	500V	120mA/120mA	± 4%	12W	>0.5	135℃	ESOP8	Bulb light, down light, LED light source	Wide voltage
SM2286ESD	2	500V	65mA/70mA	± 5%	9W	>0.5	130℃	ESOP8	Bulb light, down light, LED light source	Wide voltage
SM2386EG	2	500V	50mA/65mA	± 5%	8W	>0.5	145℃	ESOP8	Bulb light, down light, LED light source	Wide voltage
SM2096E	2	500V	120mA/120mA	± 5%	12W	>0.5	145℃	ESOP8	Bulb light, down light, LED light source	Double segment constant power
SM2253EKD	3	700V	65mA/72mA /95mA	± 5%	10W	>0.9	135℃	ESOP8	Bulb lamp, projection lamp, mining lamp	Low THD
SM2253EKG	3	700V	65mA/72mA /95mA	± 5%	10W	>0.9	145℃	ESOP8	Bulb lamp, projection lamp, mining lamp	Low THD
SM2256E	3	700V	70mA/90mA /100mA	± 5%	12W	>0.9	145℃	ESOP8	Bulb lights, other LED lighting	Low THD
SM2258E	3	700V	70mA/90mA /100mA	± 5%	12W	>0.9	145℃	ESOP8	Bulb lamp, mining lamp	Low THD
SM2254EKG	4	700V	100mA/70mA /100mA/90mA	± 5%	10W	>0.9	145℃	ESOP8	Bulb lamp, projection lamp, mining lamp	Low THD
SM2255EKG	5	700V	50mA/65mA/80mA /100mA/115mA	± 5%	10W	>0.9	145℃	ESOP8	Bulb lamp, projection lamp, mining lamp	Low THD New ERP (Outdoor)
SM2255PHG	5	700V	50mA/65mA/80mA /100mA/115mA	± 5%	15W	>0.9	145℃	ESOP16	Bulb lamp, projection lamp, mining lamp	Low THD New ERP (Outdoor)

ERP

Part Number	Channels	BV_OUT	Current Driver	Iout_max	Iout Precision	Pin	PF	Tsc	Package	Application	Feature
SM2333EB	1	500V	External	280mA	± 5%	12W	>0.7	145℃	ESOP8	Bulb light, down light	External driver constant current tube
SM2188EN	2	500V	Inside	280mA/70mA	± 5%	10W	>0.7	145℃	ESOP8	Bulb light, down light	Built-in constant current
SM2188HN	2	500V	Inside	280mA/70mA	± 5%	12W	>0.7	145℃	HSOP7	Bulb light, down light	Built-in constant current
SM2188EK	2	500V	Inside	65mA/65mA	± 5%	10W	>0.7	145℃	ESOP8	Bulb light, down light	Built-in constant current
SM2188SN	2	500V	Inside	280mA/60mA	± 5%	10W	>0.7	145℃	ESOP8	Bulb light, down light	Switch dimming function
SM2188DN	3	500V	Inside	280mA/65mA /65mA	± 5%	10W	>0.7	145℃	ESOP8	Bulb light, down light	Switch color temperature adjustment

Switching Segment

Part Number	Channels	BV_OUT	Iout_max	Iout Precision	Pin	PF	Tsc	Package	Logic	Application	Feature
SM2210ESK	1	500V	60mA	± 5%	9W	>0.5	145℃	ESOP8	100%-48%-12%	Bulb lamp, ceiling lamp	Only dimming
SM2212EK	2	500V	100mA/100mA	± 4%	10W	>0.5	145℃	ESOP8	A-B	Bulb lamp, ceiling lamp	2 graded dimming/color temperature adjustment
SM2213EK	2	500V	100mA/100mA	± 4%	10W	>0.5	145℃	ESOP8	A-AB-B	Bulb lamp, ceiling lamp	3 graded dimming/color temperature adjustment
SM2213EM	2	500V	100mA/100mA	± 4%	10W	>0.5	145℃	ESOP8	A-B-AB	Bulb lamp, ceiling lamp	3 graded dimming/color temperature adjustment
SM2213EN	2	500V	100mA/100mA	± 4%	10W	>0.5	145℃	ESOP8	AB-A-B	Bulb lamp, ceiling lamp	3 graded dimming/color temperature adjustment
SM2213EJA	2	500V	70mA/70mA	± 6%	9W	>0.5	145℃	HSOP8	AB-A-B	Bulb lamp, ceiling lamp	Constant power
SM2215EK	2	500V	65mA/65mA	± 5%	9W	>0.5	145℃	ESOP8	A-AB-B	Bulb lamp, ceiling lamp	No patch capacitor
SM2215EM	2	500V	65mA/65mA	± 5%	9W	>0.5	145℃	ESOP8	A-B-AB	Bulb lamp, ceiling lamp	No patch capacitor
SM2215ET	2	500V	65mA/65mA	± 5%	9W	>0.5	145℃	ESOP8	A-B-AB AB-A-B	Bulb lamp, ceiling lamp	Constant power

Linear Full Voltage

Part Number	Channels	BV_OUT	Iout_max	Iout Precision	Pin	PF	Tsc	Package	Application	Feature
SM2099E	2	450V	55mA/55mA	± 5%	10W	>0.5	140℃	ESOP8	Bulb light, down light	Switch between series and parallel
SM2199EG	2	500V	150mA/150mA	± 5%	10W	>0.5	140℃	ESOP8	Bulb light, down light	Switch between series and parallel
SM2098EH	2	700V	180mA/150mA	± 4%	10W	>0.7	145℃	ESOP8	Bulb light, down light	High reliability
SM2098EH[J]	2	500V	180mA/120mA	± 4%	10W	>0.7	145℃	ESOP8	Bulb light, down light	500V MOS
SM2098EHD	2	700V	180mA/150mA	± 4%	12W	>0.7	145℃	HSOP7	Bulb light, down light	Built-in diode
SM2098EHD[J]	2	500V	180mA/120mA	± 4%	10W	>0.7	145℃	HSOP7	Bulb light, down light	Built-in diode
SM2098EHS	2	700V	180mA/150mA	± 4%	9W	>0.7	145℃	ESOP6	Bulb light, down light	Built-in diode
SM2098EHS[J]	2	500V	180mA/120mA	± 4%	9W	>0.7	145℃	ESOP6	Bulb light, down light	Built-in diode

Linear SCR Dimming

Part Number	Channels	BV_OUT	Iout_max	Iout Precision	Pin	PF	Tsc	Package	Application	Feature
SM2196GF	2	500V	330mA/50mA	± 5%	5W	>0.7	145℃	ESOP8	Filament lamp, bulb lamp	Built-in stroboscopic elimination
SM2196EM	2	500V	280mA/50mA	± 5%	Filament lamp:5W Bulb lamp:7W	>0.7	145℃	ESOP8	Filament lamp, bulb lamp	SCR dimming
SM2196EJ	2	500V	380mA/50mA	± 5%	Filament lamp:7W Bulb lamp:10W	>0.7	145℃	ESOP8	Filament lamp, bulb lamp	SCR dimming
SM2196KF[J]	2	500V	350mA/50mA	± 5%	Filament lamp:9W Bulb lamp:13W	>0.7	145℃	ESOP8	Filament lamp, bulb lamp	SCR dimming
SM2196EHK	2	500V	380mA/50mA	± 5%	9W	>0.9	145℃	ESOP8	Filament lamp, bulb lamp	SCR dimming
SM2018E	2	500V	100mA/50mA	± 5%	7W	>0.9	145℃	ESOP8	Filament lamp, bulb lamp	Input 120Vac/230Vac
SM2318EA	4	500V	60mA/80mA /110mA/130mA	± 5%	9W	>0.9	145℃	ESOP8	Bulb light, down light	Input 120Vac/230Vac

High Voltage Lamp Strip

Part Number	Channels	BV_OUT	Iout_max	Iout Precision	Pin	PF	Tsc	Package	Application	Feature
SM500A8	1	500V	45mA	± 4%	4W	>0.5	75℃	SOT89-3	High voltage soft lamp strip	Constant temperature
SM500A9	1	800V	45mA	± 4%	4W	>0.5	85℃	SOT89-3	High voltage soft lamp strip	Constant temperature
SM505A8	5	700V	50mA/60mA/80mA /100mA/115mA	± 5%	5W	>0.9	85℃	ESOP8	Soft/hard lamp strip	Constant temperature

High Voltage Linear Intelligent Lighting

Part Number	Channels	Control Mode	Output Type	BV_OUT	Iout_max	Iout Precision	Pin	PF	Tsc	Package	Application	Feature
SM2083EGL	1	PWM	PWM	500V	120mA	± 5%	10W	>0.5	145℃	ESOP8	Intelligent controlled lighting	Single channel dimming Default close
SM2123EH	2	PWM	PWM	500V	180mA/180mA	± 5%	10W	>0.5	145℃	ESOP8	Intelligent controlled lighting	Dual channel dimming Default close
SM2123EGL	2	PWM	PWM	500V	120mA/120mA	± 5%	10W	>0.5	145℃	ESOP8	Intelligent controlled lighting	Dual channel dimming Default close
SM2611EN	1	PWM	Analog	500V	60mA	± 5%	7W	>0.5	145℃	ESOP8	Intelligent controlled lighting	Single channel dimming no flicker
SM2611ENA	1	PWM	Analog	500V	220mA	± 5%	12W	>0.5	145℃	ESOP8	Intelligent controlled lighting	Single channel dimming no flicker
SM2612EN	2	PWM	Analog	500V	110mA/110mA	± 5%	10W	>0.5	145℃	ESOP8	Intelligent controlled lighting	Dual channel dimming no flicker

Part Number	Channels	Control Mode	Output Type	BV_OUT	Iout_max	Iout Precision	Pin	PF	Tsc	Package	Application	Feature
SM2189EM	1	PWM	Analog	500V	110mA	±5%	10W	>0.7	145℃	ESOP8	Intelligent controlled lighting	New ERP
SM2289EM	2	PWM	Analog	500V	110mA/110mA	±5%	10W	>0.7	145℃	ESSOP10	Intelligent controlled lighting	New ERP
SM2112E	2	Single line SID	Analog	500V	80mA/80mA	±5%	10W	>0.5	145℃	ESOP8	Bulb light, down light	SID protocol dimming
SM2232EGH	2	IIC	Analog	500V	80mA/80mA	±5%	10W	>0.5	145℃	ESOP8	Bulb light, down light	1024 gray levels
SM2182E	2	IIC	Analog	500V	80mA/80mA	±5%	10W	>0.7	145℃	ESOP8	Bulb light, down light	New ERP 1024 gray levels
SM2185N	5	IIC	Analog	500V	64mA/64mA/64mA/80mA/80mA	±5%	10W	>0.7	145℃	QFN12	Bulb light, down light	New ERP 1024 gray levels
SM2235EGH	5	IIC	Analog	500V	64mA/64mA/64mA/80mA/80mA	±5%	10W	>0.5	145℃	ESOP8	Bulb light, down light	1024 gray levels 5 high withstand voltage
SM2335EGH	5	IIC	Analog	40V/500V	160mA/160mA/160mA/80mA/80mA	±5%	10W	>0.5	145℃	ESOP8	Bulb light, down light	1024 gray levels 2 high 3 low
SM2235EGW	5	IIC	PWM +Analog	500V	64mA/64mA/64mA/80mA/80mA	±5%	10W	>0.5	145℃	ESOP8	Bulb light, down light	1024 gray levels 5 high withstand voltage

Low Voltage Linear Intelligent Lighting

Part Number	Channels_OUT	Channels_DIM	BV_OUT	Iout_max	Iout Precision	Initial State	Dimming Mode	Gray Level	启辉脉宽	Package	Application
SM1501	1	1	30V	100mA	±5%	open	PWM	-	1.2uS	SOT23-5	Decorative lighting, backlight
SM15122S	1	1	40V	150mA	±8%	open	PWM	65536	30nS	SOT23-5	Decorative lighting, backlight
SM15102S	1	1	40V	150mA	±6%	open	PWM	65536	30nS	SOT23-5	Decorative lighting, backlight
SM15103EH	1	1	40V	350mA	±5%	open	PWM	65536	60nS	ESOP8	Building lighting, LED lighting
SM15103TH	1	1	40V	350mA	±5%	open	PWM	65536	60nS	SOT89-5	Building lighting, LED lighting
SM15201S	1	1	40V	350mA	±3%	open	PWM	65536	60nS	SOT23-5	Building lighting, LED lighting
SM15201EH	1	1	40V	650mA	±3%	Shut down	PWM	65536	60nS	ESOP8	Building lighting, LED lighting
SM15106T	1	1	80V	1.2A	±4%	open	PWM	65536	120nS	TO252-4	Building lighting, LED lighting
SM15133EH	3	3	40V	220mA	±5%	Shut down	PWM	65536	60nS	ESOP8	Building lighting, LED lighting
SM15133EK	3	3	40V	150mA	±5%	Shut down	PWM	65536	60nS	ESOP8	Building lighting, LED lighting
SM15633EH	3	3	60V	350mA	±4%	Shut down	PWM	65536	120nS	ESOP8	Building lighting, LED lighting
SM15633EK	3	3	80V	350mA	±4%	Shut down	PWM	65536	120nS	ESOP8	Building lighting, LED lighting
SM15105N	4	4	40V	150mA	±5%	open	PWM	65536	60nS	QFN16(4*4)	Building lighting, LED lighting
SM15125N	4	4	80V	350mA	±4%	open	PWM	65536	120nS	QFN16(4*4)	Building lighting, LED lighting
SM15115E	5	5	40V	60mA	±5%	Shut down	SID	65536	60nS	ESOP8	Building lighting, LED lighting
SM15155E	5	5	40V	300mA	±5%	Shut down	SID	65536	160nS	ESOP8	Building lighting, LED lighting

Low Voltage Linear Constant Current

Part Number	Channels	BV_OUT	Iout	Iout Precision	Tsc	Package	Application	Feature
SM24AXXTM	1	30V	20mA-120mA	±5%	-	SOT23-3, SOT89-3 SOT23-5, SOD-123	Soft/hard light strips, other LED lighting, etc	Non-dimming applications
SM4AXXT	1	40V	8.6mA-43mA	-	145℃	SOT23-3, SOT89-3 SOT23-5, SOD-123	Soft/hard light strips, other LED lighting, etc	Support PWM dimming
SM4A00TC	1	40V	45.6mA-111.5mA	-	145℃	SOT23-5	Soft/hard light strips, other LED lighting, etc	Support PWM dimming
SM4A20HS	1	40V	18.7mA	-	145℃	HFBP8[1.4x1]	Soft/hard light strips, other LED lighting, etc	Support PWM dimming

Part Number	Channels	BV_OUT	Iout	Iout Precision	Tsc	Package	Application	Feature
SM4A20H	2	40V	18.7mA	-	145℃	HFBP8[1.4x1]	Soft/hard light strips, other LED lighting, etc	Support PWM dimming
SM15302T	1	40V	20mA	± 5%	-	SOT23-3	Soft/hard light strips, other LED lighting, etc	Support PWM dimming
SM15304T	1	40V	40mA	± 5%	-	SOT23-3, SOT89-3	Soft/hard light strips, other LED lighting, etc	Support PWM dimming
SM15306T	1	40V	60mA	± 5%	-	SOT23-3, SOT89-3	Soft/hard light strips, other LED lighting, etc	Support PWM dimming
SM15308T	1	40V	80mA	± 5%	-	SOT89-3	Soft/hard light strips, other LED lighting, etc	Support PWM dimming
SM15310T	1	40V	100mA	± 5%	-	SOT89-3	Soft/hard light strips, other LED lighting, etc	Support PWM dimming
SM15312T	1	18V	120mA	± 5%	-	SOT223, SOT89-3	Soft/hard light strips, other LED lighting, etc	Support PWM dimming

Elimination Flicker

Part Number	Channels	BV_OUT	Iout_max	PD	Tsc	Package	Application
SM901K	1	90V	40mA	0.35W	150℃	SOT23-3	Filament lamp, bulb lamp
SM901KG	1	90V	60mA	0.35W	150℃	SOT23-3	Filament lamp, bulb lamp
SM901KF	1	90V	60mA	0.35W	150℃	SOT23-3	Filament lamp, bulb lamp
SM901TG	1	90V	80mA	0.65W	150℃	SOT89-3	Filament lamp, bulb lamp
SM2810M	1	500V	60mA	0.35W	170℃	SOT23-5	Filament lamp, bulb lamp

LIGHTING DRIVER

DC-DC Constant Current Driver

Part Number	Topology	BV_OUT	Iout_max	HV_mos	Iout Precision	Gray Level	Dimming Mode	Package	Application	Feature
SM32105E	BUCK	50V	1A	Inside	± 3%	65536	PWM	ESOP8	Stage lighting, decorative lighting	Support PWM dimming
SM32108E	BUCK	60V	1A	Inside	± 3%	65536	PWM	ESOP8	Stage lighting, decorative lighting, etc	Support PWM dimming
SM32109E	BUCK	60V	1.5A	Inside	± 3%	65536	PWM	ESOP8	Stage lighting, decorative lighting, etc	Support PWM dimming
SM3618CA	BUCK	100V	3A	Inside	± 3%	65536	PWM	SOP8	Stage lighting, decorative lighting, etc	3A MOS
SM3618ECA	BUCK	100V	3A	Inside	± 3%	65536	PWM	ESOP8	Stage lighting, decorative lighting, etc	3A MOS
SM3618CB	BUCK	100V	3A	Inside	± 3%	65536	PWM	SOP8	Stage lighting, decorative lighting, etc	100V withstand voltage
SM3618ECB	BUCK	100V	3A	Inside	± 3%	65536	PWM	ESOP8	Stage lighting, decorative lighting, etc	100V withstand voltage
SM3618CC	BUCK	100V	6A	Inside	± 3%	65536	PWM	SOP8	Stage lighting, decorative lighting	6A MOS
SM3618T	BUCK	-	-	External	± 3%	65536	PWM	SOT23-5	Stage lighting, decorative lighting, etc	External MOS
SM3611	BUCK	100V	1A	Inside	± 3%	-	-	ESOP8	Battery car lights, etc	-
SM3612	BUCK	30V	1.2A	Inside	± 5%	-	PWM	ESOP8	Security lighting, electric bicycles, etc	-
SM3621	BUCK	60V	5A	External	± 3%	-	PWM	ESOP8	Stage lighting, decorative lighting, etc	-
SM3601	BOOST	40V	1A	Inside	± 3%	-	PWM	SOT23-6	Table lamp, display backlight, etc	-

Single-Polarity RZ Code(SID) Series Driver

Part Number	Protocol	Channels	Gray Level	BV_OUT	Iout	Current Gain	Fosc_out	Initial State	Package	Application
SM6603AP2	SID	3	256	30V	12mA	No	4.6KHz	Shut down	SOP8	Architectural appearance, scene lighting
SM6603AP3	SID	3	256	40V	17mA	No	4.6KHz	Shut down	SOP8	Architectural appearance, scene lighting
SM6603SP3	SID	3	256	30V	18mA	No	4.6KHz	Shut down	SOP8	Architectural appearance, scene lighting
SM6603ST3	SID	3	256	30V	18mA	No	4.6KHz	Shut down	SOT23-8	Architectural appearance, scene lighting
SM16703P	SID	3	256	30V	17mA	No	1KHz	50% White light	SOP8	Architectural appearance, scene lighting
SM16703PM	SID	3	256	15V	12mA	No	4KHz	Shut down	SOP8	Architectural appearance, scene lighting
SM16703TH	SID	3	256	30V	8mA	No	1KHz	Shut down	SOT23-8	Architectural appearance, scene lighting
SM16703PB	SID	3	256	30V	17mA	No	1KHz	Shut down	SOP8	Architectural appearance, scene lighting
SM16703PBH	SID	3	256	30V	17mA	No	1KHz	Shut down	SOP8	Architectural appearance, scene lighting
SM16703SP3	SID	3	256	30V	17mA	No	1.2KHz	Shut down	SOP8	Architectural appearance, scene lighting
SM16703AP3	SID	3	256	30V	17mA	No	1.2KHz	Shut down	SOP8	Architectural appearance, scene lighting
SM16703SP2	SID	3	256	30V	12mA	No	4.6KHz	Shut down	SOP8	Architectural appearance, scene lighting
SM16703AP2	SID	3	256	30V	12mA	No	4.6KHz	Shut down	SOP8	Architectural appearance, scene lighting
SM16713TH	SID	3	256	26V	2.5-40mA	Level 32	1KHz	Shut down	SOT23-8	Architectural appearance, scene lighting
SM16803PB	SID	3	65536	26V	1.7~60mA	Level 16	4KHz	Shut down	SOP8	Architectural appearance, scene lighting
SM16813P	SID	3	65536	15V	1.7~19mA	Level 16	4KHz	Shut down	SOP8	Architectural appearance, scene lighting
SM16813PH	SID	3	65536	30V	1.7~19mA	Level 16	4KHz	Shut down	SOP8	Architectural appearance, scene lighting
SM16823E	SID	3	65536	26V	60-350mA	Level 16	4KHz	Shut down	ESOP8	Architectural appearance, scene lighting
SM16704PB	SID	4	256	30V	17mA	No	1KHz	Shut down	SOP8	Architectural appearance, scene lighting
SM16704PK	SID	4	256	30V	17mA	No	1KHz	Shut down	SOP8	Architectural appearance, scene lighting
SM16714P	SID	4	256	15V	2.5~38mA	Level 32	1KHz	Shut down	SOP8	Architectural appearance, scene lighting
SM16714PHT	SID	4	256	26V	2.5~38mA	Level 32	1KHz	Shut down	SOP8	Architectural appearance, scene lighting
SM16804PB	SID	4	65536	26V	1.7~19mA	Level 16	4KHz	Shut down	SOP8	Architectural appearance, scene lighting
SM16804EB	SID	4	65536	26V	1.7~60mA	Level 16	4KHz	Shut down	ESOP8	Decorative lighting, architectural appearance, scene lighting
SM16824E	SID	4	65536	26V	60~350mA	Level 16	4KHz	Shut down	ESOP8	Decorative lighting, architectural appearance, scene lighting
SM16705PD	SID	5	65536	30V	Constant pressure	No	4KHz	Shut down	ESOP8	Decorative lighting, architectural appearance, scene lighting
SM16825E	SID	5	65536	40V	10-300mA	Level 32	4KHz	Shut down	ESOP8	Decorative lighting, architectural appearance, scene lighting
SM16709P	SID	6/9	256	30V	17mA	No	1KHz	White light	SOP14	Decorative lighting, architectural appearance, scene lighting
SM16712P	SID	12	256	30V	17mA	No	1KHz	White light	SOP16	Decorative lighting, architectural appearance, scene lighting
SM16712PD	SID	12	256	30V	Constant pressure	No	1KHz	White light	SOP16	Decorative lighting, architectural appearance, scene lighting
SM16712PH	SID	12	65536	30V	1~32mA	Level 16	18KHz	Shut down	SOP16	Decorative lighting, architectural appearance, scene lighting
SM16712TS	SID	12	256	26V	17mA	No	1.2KHz	Bright white light	TSSOP16	Decorative lighting, architectural appearance, scene lighting
SM16212N	SID	12	65536	8V	1~18mA	Level 32	18KHz	Shut down	QFN16	LED strip screen/transparent screen/lighting fixture
SM16212NH	SID	12	65536	8V	1~18mA	Level 32	18KHz	Shut down	QFN16	LED strip screen/transparent screen/lighting fixture
SM16212EH	SID	12	65536	8V	1~18mA	Level 32	18KHz	Shut down	ETSSOP16	LED strip screen/transparent screen/lighting fixture

Double Wire Series Driver

Part Number	Protocol	Channels	Gray Level	BV_OUT	Iout	Current Gain	Fosc_out	Initial State	Package	Application
SM726EB	IIC	3	256	30V	18mA	No	4KHz	White light	SOP8	Decorative lighting, architectural appearance, scene lighting
SM16726P	IIC	3	256	30V	18~60mA	No	4KHz	White light	SOP14	Decorative lighting, architectural appearance, scene lighting

DMX512 Series Driver

Part Number	Type	Channels	Gray Level	BV_OUT	Iout	Current Gain	Fosc_out	Initial State	Package	Application
DMX512AW	Single line	3	256	26V	18-60mA	No	3.6KHz	Shut down	SOP8	Decorative lighting, architectural appearance, scene lighting
DMX512AW-B	Single line	3	256	26V	18-60mA	No	3.6KHz	Shut down	SOP8	Decorative lighting, architectural appearance, scene lighting
SM16909P	Single line	6/9	65536	30V	17mA	No	250Hz	50% white light	SOP14	Decorative lighting, architectural appearance, scene lighting
SM16912P	Single line	12	65536	30V	17mA	No	250Hz	50% white light	SOP16	Decorative lighting, architectural appearance, scene lighting

DMX512 Parallel Driver

Part Number	Type	Channels	Gray Level	BV_OUT	Iout	Current Gain	Fosc_out	Initial State	Automatic Goding	Package	Application
SM16511BK	Single line	3	256	30V	17mA	No	3.6KHz	Optional	No	SOP8	Decorative lighting, architectural appearance, scene lighting
SM16511PB	Single line	3	256	30V	17mA	No	3.6KHz	Optional	No	SOP8	Decorative lighting, architectural appearance, scene lighting
SM18511BK	Single line	3	256	40V	<17mA	Level 32	4KHz	User-defined	Yes	SOP8	Decorative lighting, architectural appearance, scene lighting
SM18511PB	Single line	3	256	40V	<17mA	Level 32	4KHz	User-defined	Yes	SOP8	Decorative lighting, architectural appearance, scene lighting
SM16511P	Single line	4	256	30V	<60mA	No	3.6KHz	Optional	No	SOP16	Decorative lighting, architectural appearance, scene lighting
SM16511PS	Single line	4	256	30V	<60mA	No	3.6KHz	Optional	No	SSOP10	Decorative lighting, architectural appearance, scene lighting
SM18511PS	Single line	4	256	40V	<60mA	Level 32	4KHz	User-defined	Yes	SSOP10	Decorative lighting, architectural appearance, scene lighting
SM17500P	differential	Transpond	-	-	-	-	-	User-defined	No	SOP8	Decorative lighting, architectural appearance, scene lighting
SM16512P	differential	4	256	30V	<60mA	No	3.6KHz	Optional	No	SOP16	Decorative lighting, architectural appearance, scene lighting
SM16512PK	differential	4	256	30V	<60mA	No	3.6KHz	Optional	No	SOP16	Decorative lighting, architectural appearance, scene lighting
SM16512PS	differential	4	256	30V	17mA	No	3.6KHz	Optional	No	SOP16	Decorative lighting, architectural appearance, scene lighting
SM18512P	differential	4	256	40V	<60mA	Level 32	4KHz	User-defined	Yes	SOP16	Decorative lighting, architectural appearance, scene lighting
SM18512PK	differential	4	256	40V	<60mA	Level 32	4KHz	User-defined	Yes	SOP16	Decorative lighting, architectural appearance, scene lighting
SM18512PS	differential	4	256	40V	<17mA	Level 32	4KHz	User-defined	Yes	SSOP10	Decorative lighting, architectural appearance, scene lighting
SM18512SK	differential	4	256	40V	<17mA	Level 32	4KHz	User-defined	Yes	SSOP10	Decorative lighting, architectural appearance, scene lighting
SM18512ES	differential	4	256	40V	<60mA	Level 32	4KHz	User-defined	Yes	ESSOP10	Decorative lighting, architectural appearance, scene lighting
SM16520P	differential	4	65536	-	TTL	No	200Hz	Optional	No	SOP16	Decorative lighting, architectural appearance, scene lighting
SM16522P	differential	4	65536	30V	<60mA	No	200Hz	Optional	No	SOP16	Decorative lighting, architectural appearance, scene lighting
SM16522PS	differential	4	65536	30V	<60mA	No	200Hz	Optional	No	SOP16	Decorative lighting, architectural appearance, scene lighting
SM18522P	differential	4	65536	40V	<60mA	Level 32	4KHz	User-defined	Yes	SOP16	Decorative lighting, architectural appearance, scene lighting
SM18522PS	differential	4	65536	40V	<17mA	Level 16	4KHz	User-defined	Yes	SSOP10	Decorative lighting, architectural appearance, scene lighting

LANDSCAPE DRIVER

Part Number	Type	Channels	Gray Level	BV_OUT	Iout	Current Gain	Fosc_out	Initial State	Automatic Goding	Package	Application
SM18522SK	differential	4	65536	40V	<17mA	Level 16	4KHz	User-defined	Yes	SSOP10	Decorative lighting, architectural appearance, scene lighting
SM18522ES	differential	4	65536	40V	<60mA	Level 16	4KHz	User-defined	Yes	ESSOP10	Decorative lighting, architectural appearance, scene lighting
SM18522PL	differential	4	65536	40V	<60mA	Level 16	4KHz	User-defined	Yes	SOP16	Decorative lighting, architectural appearance, scene lighting
SM18520P	differential	4	65536	40V	TTL	NO	4KHz	User-defined	Yes	SOP16	Decorative lighting, architectural appearance, scene lighting
SM18522PH	differential	4	65536	40V	<350mA	Level 32	4KHz	User-defined	Yes	ESOP16	Decorative lighting, architectural appearance, scene lighting
SM18522EH	differential	4	65536	40V	<350mA	Level 32	4KHz	User-defined	Yes	ESSOP10	Decorative lighting, architectural appearance, scene lighting
SM19522SK	differential	4	65536	40V	<60mA	Level 64	250-32K	User-defined	Yes	SSOP10	Decorative lighting, architectural appearance, scene lighting
SM19522PHG	differential	6	65536	40V	<300mA	Level 64	250-32K	User-defined	Yes	ESOP16	Decorative lighting, architectural appearance, scene lighting
SM19522PG	differential	6	65536	40V	<60mA	Level 64	250-32K	User-defined	Yes	SOP16	Decorative lighting, architectural appearance, scene lighting

Motor Driver

Part Number	VCC	Continuous Current	Peak Current	Nsleep	OTP	H+L_Rdson	Package	Application
SM5118S	1.8-4.5V	0.8A	2A	N	Y	0.6Ω	SOP8	Powered toothbrush Electronic toys
SM5119	1.8-7V	1.8A	3.5A	Y	Y	0.28Ω	ESOP8	Electronic toys Consumer products

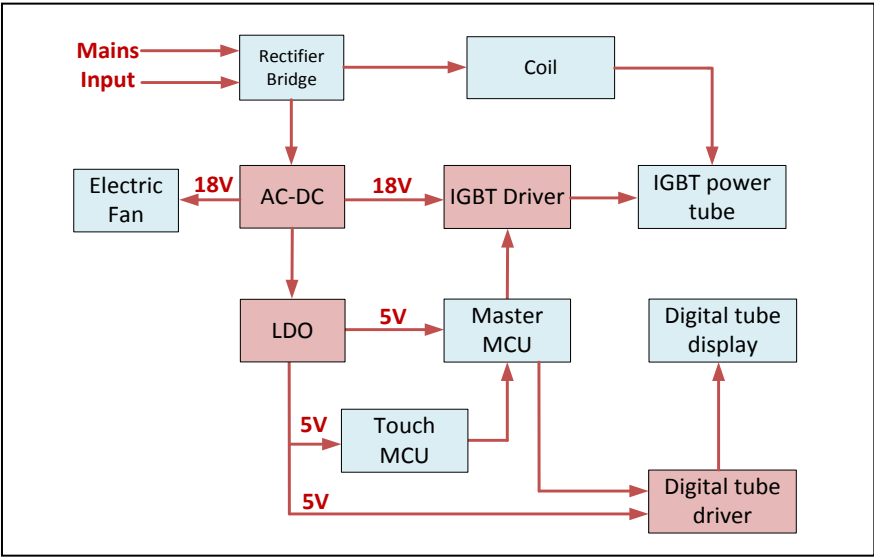
IGBT Driver

Part Number	Vin_Max	IN Channel	HV_Iout	LV_Iout	IQ	OTP	Package	Application
SM9001B	40V	1	36mA	60mA	45uA	N	SOT23-5	Electromagnetic Oven and other small household appliance
SM9003	30V	2	150mA	80mA	1.8mA	Y	SOT23-6	Electromagnetic Oven and other small household appliance

Logic Driver

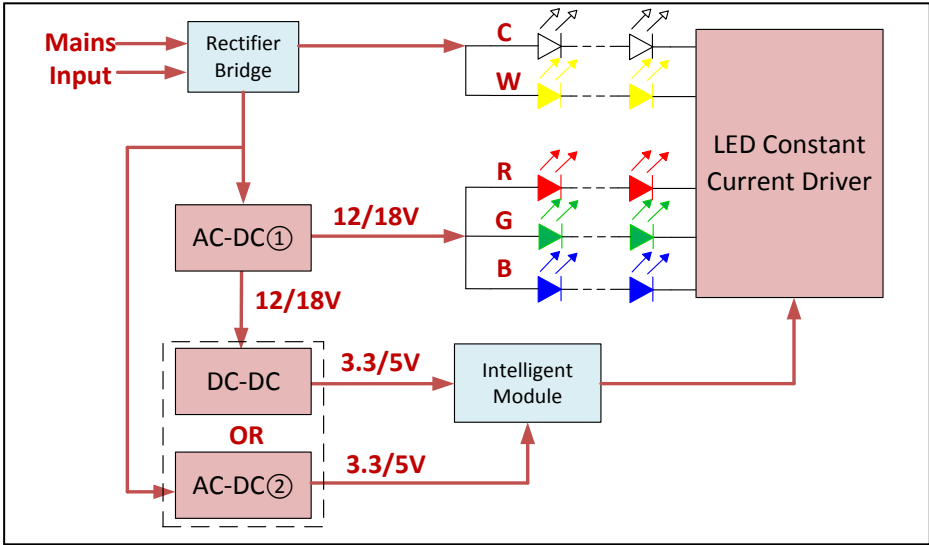
Part Number	VDD	Feature	Package	Application
MW245TS	3.0-5.5V	8-channel data transmission chip	TSSOP20	LED display module
MW245N	3.0-5.5V	8-channel data transmission chip	QFN20	LED display module
MW245B	2.0-5.5V	8-channel data transmission chip	TSSOP20	LED display module
SM245N	2.0-5.5V	8-channel data transmission chip with increased driver capability	QFN20	LED display module/adapter panel
SM245TS	2.0-5.5V	8-channel data transmission chip with increased driver capability	TSSOP20	LED display module/adapter panel
SM138TS	3.0-5.5V	3 Input 8 output decoder	TSSOP16	Digital circuit 3-8 decoding application
MW138N	3.0-5.5V	3 Input 8 output decoder	QFN16	Digital circuit 3-8 decoding application
SM74HC138D	3.0-5.5V	3 Input 8 output decoder	SOP16	Digital circuit 3-8 decoding application
SM74HC04	3.0-5.5V	6 channel inverter	SOP14	Digital circuit signals are used in reverse
SM74HC123D	3.0-5.5V	Dual-channel monostable trigger with reset function	SOP16	Digital circuit monostable trigger application
SM74HC164D	3.0-5.5V	8 channel serial-parallel conversion control chip	SOP14	Home appliances display panel, digital logic control circuit
SM74HC595A	3.0-5.5V	8-channel parallel output and serial data transfer chip	SOP16	LED single-color red module
SM74HC595D	3.0-5.5V	8-channel parallel output and serial data transfer chip with enable and reset	SOP16	LED single and double color display 、 Set-top box display 、 Small home appliance display panel

Electromagnetic Oven Application Solution



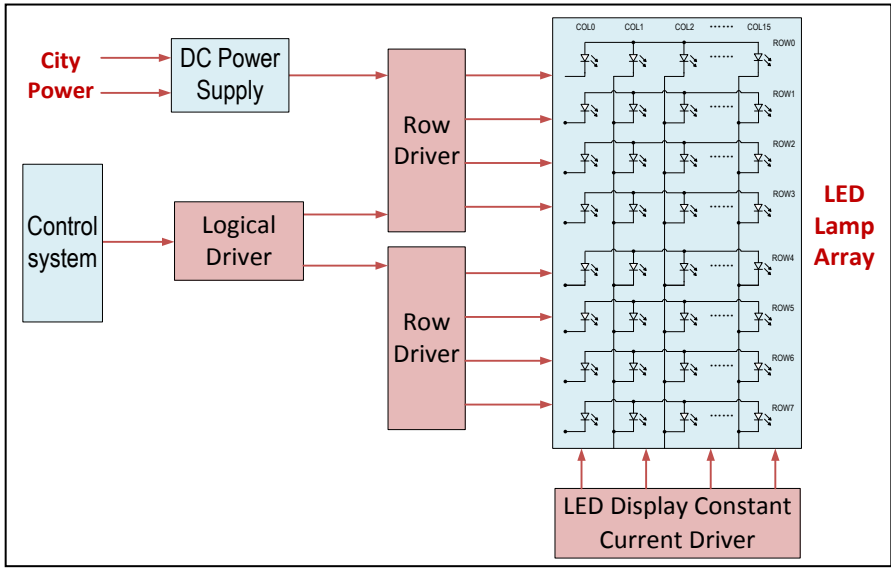
Type	Part Number	Description	Package
AC-DC	SM7025	Output 12V/18V optional, output 150mA non-isolated, built-in 650V power tube	SOP8
	SM7055	Output 12V/18V optional, output 200mA non-isolated, built-in 650V power tube	DIP8
	SM7055-18	Output fixed 18V, output 250mA non-isolated, built-in 650V power tube	DIP8, TO252-2
	SM7075P	Output 12V/18V optional, output 300mA non-isolated, built-in 650V power tube	SOP8
	SM7075	Output 12V/18V optional, output 300mA non-isolated, built-in 650V power tube	DIP8
	SM7075-18	Output fixed 18V, output 300mA non-isolated, built-in 650V power tube	DIP8, TO252-2
	SM7012	5-8W secondary side feedback, built-in 650V power tube	SOP8, DIP8
	SM7022	5-12W secondary side feedback, built-in 650V power tube	SOP8, DIP8
LDO	SM1117C-XX	Maximum output current 800mA high precision linear voltage regulator	SOT223
	SM1117-XX	Maximum output current 1A high precision linear voltage regulator	SOT89-3, SOT223, TO252-2
	SM13XXT	Low power linear voltage regulator with maximum output current 200mA	SOT89-3
IGBT Driver	SM9001B	Low power consumption 40V withstand voltage IGBT driver chip	SOT23-5
	SM9003	30V withstand voltage IGBT driver chip with overtemperature protection	SOT23-6
Digital Tube Driver	SM1620B	Support 4 digits *9 segments - 7 digits *10 segments digital display driver	SOP20
	SM1668	Support 7 digits *10 segments digital display driver	SOP24
	SM1668S	Support 7 digits *10 segments digital display driver	SSOP24
	SM1628C	Support 4 digits *13 segments - 7 digits *10 segments digital display driver	SOP28
	SM1623B	Support 4 digits *14 segments - 7 digits *11 segments digital display driver	SOP32
	SM1612	Support 4 digits *13 segments - 7 digits *10 segments digital display driver	SOP24
	SM1642	Support 4 digits *8 segments digital display driver	SOP16
	SM1650P	Support 4 digits *8 segments digital display driver	SOP16
	SM1616	Support 16 digits *8 segments digital display driver	SOP28

Intelligent Lighting Application Solution



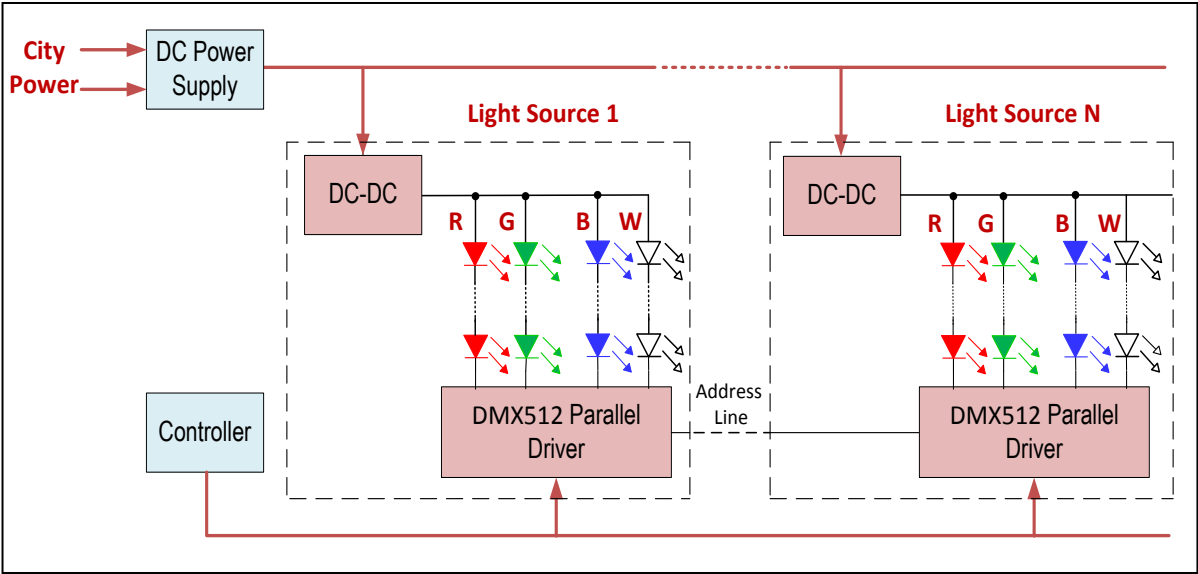
Type	Part Number	Description	Package
AC-DC①	SM7075	Output 12V/18V optional, output 300mA non-isolated, built-in 650V power tube	DIP8
	SM7075-18	Output fixed 18V, output 300mA non-isolated, built-in 650V power tube	DIP8, TO252-2
AC-DC②	SM6035A-3/5	Fixed output 3.3V or 5V, output 60mA non-isolated, Bluetooth module power supply, built-in 500V power tube	SOT23-3
	SM6035	Output 3.3V/5V optional, output 300mA non-isolated, WIFI module power supply, built-in 500V power tube	SOP8
DC-DC	SM3026TB	36V/1.2A step-down synchronous converter	SOT23-6
	SM3027TA	55V/0.6A step-down synchronous converter	SOT23-6
	SM3028NA	60V/0.6A step-down synchronous converter	SOT23-6
LED Constant Current Driver	SM2083EGL	Single channel PWM dimming high voltage linear constant current	ESOP8
	SM2123EH/EGL	Dual channel PWM dimming high voltage linear constant current	ESOP8
	SM2611EN/ENA	Single channel PWM to analog high voltage linear constant current	ESOP8
	SM2612EN	Dual channel PWM to analog high voltage linear constant current	ESOP8
	SM2112E	Dual channel Single line SID to analog high voltage linear constant current	ESOP8
	SM2232EGH	Dual channel IIC to analog high voltage linear constant current	ESOP8
	SM2182E	Dual channel IIC to analog high voltage linear constant current	ESOP8
	SM2235EGH	Five channels IIC to analog high voltage linear constant current	ESOP8
	SM2235EGW	Five channels IIC to PWM+analog high voltage linear constant current	ESOP8
	SM2335EGH	Five channels IIC to analog high voltage linear constant current	ESOP8
	SM2185N	Five channels IIC to analog high voltage linear constant current	QFN12
	SM15201EH	Single channel PWM dimming 40V low voltage linear constant current	ESOP8
	SM15106T	Single channel PWM dimming 80V low voltage linear constant current	TO252-4
	SM15133EH/EK	Three-channel PWM dimming 40V low voltage linear constant current	ESOP8
	SM15633EH	Three-channel PWM dimming 60V low voltage linear constant current	ESOP8
	SM15633EK	Three-channel PWM dimming 80V low voltage linear constant current	ESOP8

Display Application Solution (LED Module)



Type	Part Number	Description	Package	Application
Logic Driver	MW245	8-channel data transmission chip	SOP20, SOP20-2, TSSOP20, DIP20	LED display module
	SM245	8 channel data transmission chip with increased drive capability	SOP20, SOP20-2, TSSOP20, DIP20	LED display module/Switching plate
	SM1645	8 channel data transmission chip with built-in encryption function	TSSOP20	LED display intelligent module
Row Driver	SM5166	8 channel fixed 3.2A output current blanking common anode row driver	SOP16	138 decoded common anode LED module
	SM5188 (common cathode)	8 channel 3.2A output current adjustable blanking common cathode row driver	SOP16, QFN16	138 decoded common cathode LED module
	SM5368	8 channel 3.2A output current common anode row driver	SOP16	Serial decoding common anode LED module
	SM5369	16 channel 3.2A output current common anode row driver	QSOP24, QFN24	Serial decoding common anode LED module
	SM5388 (common cathode)	8 channel 3.2A output current common cathode row driver	SOP16, QFN16	Serial decoding common cathode LED module
Constant Current Driver	SM16306	16 channel energy saving universal constant current driver	QSOP24	Display above P3
	SM16208	16 channel basic dual latch driver	QSOP24	Display above P2
	SM16238	16 channel multi-function dual latch driver	QSOP24, QFN24	P2 or higher display
	SM16218	18-channel grille screen driver	QFN24 (3*4)/(2*4)	Grille screen
	SM16188	4 * 8 monochrome constant current driver	SOP16	Single and dual color display
	SM16288	8 * 8 monochrome constant current driver	QSOP24	Single and dual color display
	SM16318	18 channel grille screen PWM driver	QFN24 (3*4)/(2*4)	Grille screen
	SM16169	16 channel Outdoor common anode PWM Driver (2-16S)	QSOP24, QFN24	P3.91 or higher display
	SM16380	16 channel Small-spacing common anode PWM Driver (1-64S)	QSOP24, QFN24	Display above P1.8
	SM16389	16 channel built-in GCLK common anode PWM Driver (1-64S)	QSOP24, QFN24	Display above P1
	SM16509 (common cathode)	16 channel built-in GCLK common cathode PWM Driver (1-64S)	QSOP24, QFN24	Display above P1
	SM16609 (common cathode)	48CH constant current +16NMOS matrix structure common cathode PWM Driver (1-64S)	QFN76	Display below P2

Landscape Lighting Application Solution(Point Light Source)



Type	Part Number	Description	Package
DC-DC	SM3027TA	55V/0.6A step-down synchronous converter	SOT23-6
	SM3028NA	60V/0.6A step-down synchronous converter	SOT23-6
	SM3028NB	60V/0.3A step-down synchronous converter	SOT23-6
	SM3028NC	60V/0.15A step-down synchronous converter	SOT23-6
DMX512并联驱动	SM16512P	4 channel 256 level dimming grayscale	SOP16
	SM16512PK	4 channel 256 level dimming grayscale	SOP16
	SM16512PS	4 channel 256 level dimming grayscale	SOP16
	SM18512P	4 channel 256 level dimming grayscale	SOP16
	SM18512PS	4 channel 256 level dimming grayscale	SSOP10
	SM16522P	4 channel 65536 level dimming grayscale	SOP16
	SM18522P	4 channel 65536 level dimming grayscale	SOP16
	SM19522SK	4 channel 65536 level dimming grayscale	SSOP10
	SM19522PG	6 channel 65536 level dimming grayscale	SOP16



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