

SELECTION GUIDES

LED Driver IC

Part Number	SSD1071	SSD1072	SSD1073	SSD1065	SSD1075
Applications	LED MR16/MR11, General Lighting	E27, E14, GU10, PAR30/38	E27, E14, GU10, PAR30/38	Intelligent Lighting	Retrofit Dimmable E27, E14, GU10, PAR30/38
Driving Topology	Buck	Buck, Flyback	Buck, Flyback	Buck, Flyback	Buck, Flyback
Constant Current Model	High-End Sensing	20mA ~ 2A (Ext. MOSFET)	20mA ~ 2A (Ext. MOSFET)	20mA ~ 2A (Ext. MOSFET)	20mA ~ 2A (Ext. MOSFET)
Input Voltage (DCVin)	7.0V ~ 30V	7.0V ~ 16V	7.0V ~ 16V	8.0V ~ 450V	8.0V ~ 450V
Max. Driving Efficiency	91%	> 90%	> 90%	>85%	>85%
Max. Power Factor	N/A	> 0.95	> 0.95	Ext. PFC	Ext. PFC
Max. Current Output (Iout)	1A	Depends on MOSFET	Depends on MOSFET	Depends on MOSFET	Depends on MOSFET
Max. LED loading Voltage (Vout)	VIN - 0.7	N/A	N/A	N/A	N/A
Driving MOSFET	Built-in	External	External	External	External
Max. Power output	25W	Depends on MOSFET	Depends on MOSFET	Depends on MOSFET	Depends on MOSFET
Protection	Over-Temperature Protection Over-Current Protection Open-Circuit Protection	Over-Temperature Protection Under-Voltage Protection	Over-Temperature Protection Under-Voltage Protection	Over-Temperature Protection Under-Voltage Protection	Over-Temperature Protection Under-Voltage Protection
Special Features	Soft Start	N/A	On/Off Dimming	N/A	N/A
Dimming	PWM / DC	N/A	On/Off Dimming	PWM / DC	SCR Dimming
Package	SOT89-5	MSOP10	MSOP10	HSOP8	HSOP8
Suggested design	(MR16) 1W x 3 in serial	Bulb (1W x 7) Non-Dim	Bulb (1W x 7) On/Off Dim	Bulb (1W x 7) PWM Dim	Bulb (1W x 7) SCR Dim
MOQ	3 Ku	3 Ku	3 Ku	3 Ku	3 Ku
Avalibility	Ready	Ready	Ready	Ready	Ready

Backlight Driver IC

Part Number	SSD1065	SSD1081	SSD1082
Input Voltage	8V ~ 450V	4.5V ~ 33V	4.5V ~ 33V
Max. Rating	450V	50V	50V
Current Per Channel	700mA	80mA	160mA
Booster MOSFET	External	External	External
No. of String	1	8	4
LED Current Balance Rate	N/A	+/-1.5%	+/-1.5%
Dimming	PWM	PWM	PWM
Standby Mode	Yes (PWM=0)	Yes	Yes
Time-shift Function	No need	Yes	Yes
Open/Short Pt.	Support by external design	Yes	Yes
OVP/LVP/OCF	Support by external design	Yes	Yes
LED Short Circuit Protection	Yes	Yes	Yes
Fault Detect	No	Yes	Yes
Package	SOP8	SOP24	SOP16
MOQ	3 Ku	3 Ku	3 Ku
Avalibility	Ready	Ready	Ready