

Product Overview

RM9005D is a control chip driven by the constant current from dual-channel LED. It can directly drive high-voltage LED string light. And the output current is set to 5mA ~ 60mA by the external SENSE resistor, keeping the output current at the set value.

RM9005D has a simple system structure with very few peripherals. And the peripheral circuit works without magnetic components. It applies multichip in parallel, and these chips can share PCB board with LED. What makes it more convenient is that the LED current can be set outside.

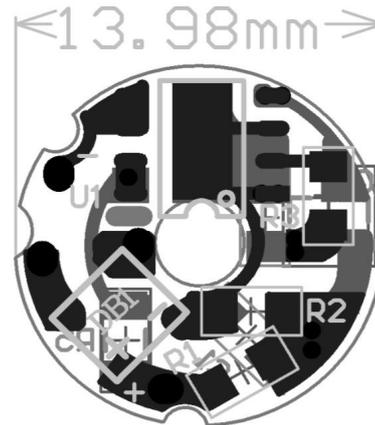
RM9005D has no EMI problem with its application line for that it is equipped with built-in HV MOS of 400v, and it has the temperature adjusting ability.

RM9005D is available in ESOP-8 package.

System Specification: 4W/24mA

Input Voltage	120Vac
Output Voltage	130V
Output Current	20mA
CC tol.	<±3%
Efficiency	>70%
PF	>0.9
Topological Structure	high-voltage linear

PCB:



Typical Applications:

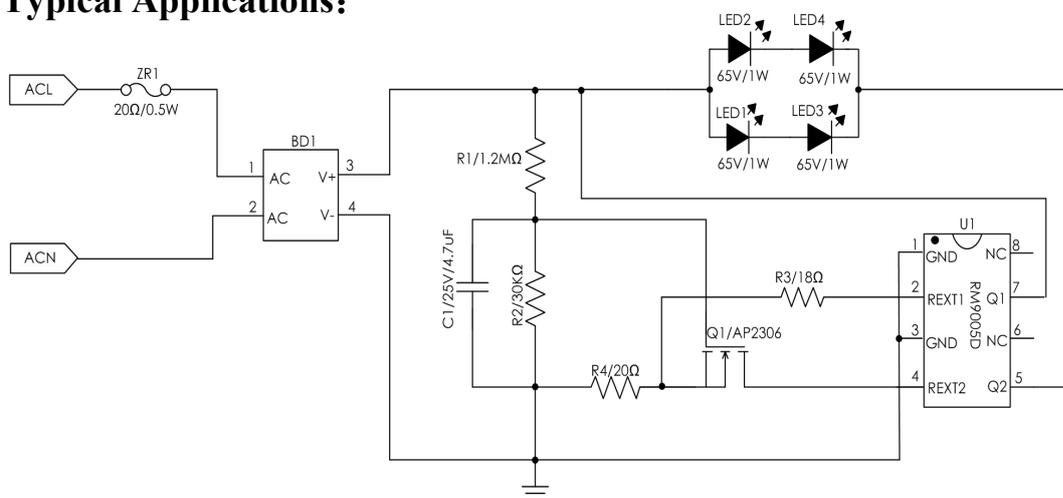


Figure 1 The schematic diagram of the system application

BOM of the system:

Item Number	Part Type	Specification	Package Dimensions	Quantity	Manufacturer
U1	IC	RM9005D	ESOP-8	1	Reactor
ZR1	Anti-surge Resistor	20R/0.5W	Plug-in	1	
BD1	Bridge Rectifier	MB10F	SMD	1	
R1	Chip Resistor	1.2M/5%	1206	1	
R2	Chip Resistor	30K/5%	1206	1	
C1	Chip Capacitor	4.7uF/25V	0805	1	
R3	Chip Resistor	18R/1%	1206	1	
R4	Chip Resistor	20R/1%	1206	1	
Q1	Chip MOS	AP2306	Sot-23	1	
R5	Chip Resistor	100R/5%	1206	1	
LED	Ligament		65V/1W	4	
Power Supply	14mm*14mm glass fiber		Thickness 1.0mm	1	

Note: anti-surge resistance is directly connected to the AC input line. See the connection mode in the schematic diagram.