

### DESCRIPTION

PT6923 is a special current regulator to drive HV LED. The proprietary 3-Segment driving topology will improve power factor, THDI and efficiency. EMI issue will be avoided by special technology during segment switching. Few external components design is very flexible in many compact size applications.

PT6923 supports maximum 400V input voltage that ensures the high reliability for HV LED lighting. LED open/short is protected by PT6923. The high voltage will be absorbed by PT6923 itself. LEDs will never face high voltage problem.

PT6923 is integrated temperature compensation function. When internal junction temperature is higher than 130  $^{\circ}$ C (Typ.), PT6923 will decrease the output current linearly. The output current will be zero when internal junction temperature reaches 150  $^{\circ}$ C (Typ.). This protection method effectively avoids the flicker problem during abnormal environment temperature.

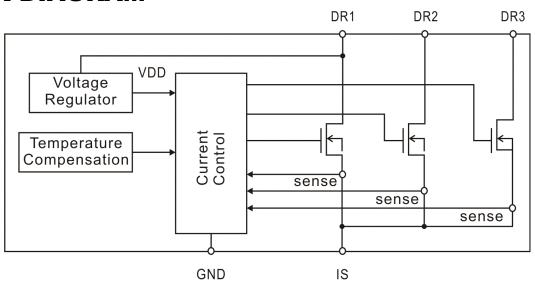
### APPLICATIONS

- LED Bulb
- LED Tube Lamp
- Compact Size LED Lighting

# **BLOCK DIAGRAM**

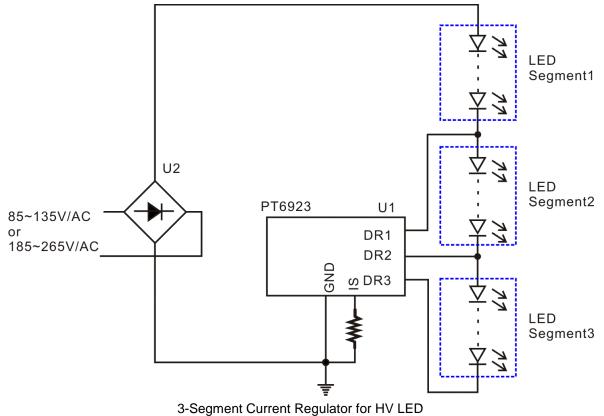
#### **FEATURES**

- 5V~400V Operating Voltage
- Maximum 100mA Peak Output Current
- $\pm$ 5% Current Accuracy
- Proprietary 3-Segment Driving Technology
- Low THDI
- High Power Factor
- High Efficiency
- Few External Components
- Electrical Capacitor Needless
- LED Open/Short Protection
- Temperature Compensation When  $T_J>130^{\circ}C$  (Typ.), output current will decrease. Output current will be zero when  $T_J=150^{\circ}C$  (Typ.)
- TO252-5L Package
- ESOP-8L Package





# **TYPICAL APPLICATION**

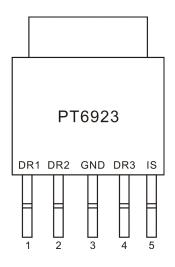


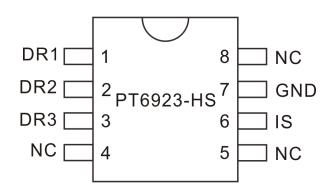


## **ORDER INFORMATION**

Valid Part Number	Package Type	Top Code
PT6923	5-Pin, TO252	PT6923
PT6923-HS	8-Pin, ESOP,150mil	PT6923-HS

## **PIN CONFIGURATION**





# **PIN DESCRIPTION**

Pin Name Description		Pin No.		
Fin Name	Description		ESOP-8	
DR1	IC Power Supply and Drain of the First Switch.	1	1	
DR2	Drain of the Second Switch.	2	2	
GND	IC Ground.	3	7	
DR3	Drain of the Third Switch.	4	3	
IS	Output Current Setting. The output current is programmable with a resistor across IS pin and IC GND pin.	5	6	



#### **IMPORTANT NOTICE**

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