Shenzhen Fuman Electronics Co., Ltd. SHENZHEN FUMAN ELECTRONICS CO., LTD. FM2819 (File number: S&CIC1083) LED Miner's lamp control IC

One, Overview

This IC is a special integrated circuit designed for LED miner's lamp, using the most advanced control technology and wide voltage design. Strengthens the durability of IC

It can be used to control LED lights of 3W or below, with current limiting protection function, over temperature protection function, output short circuit protection function, anti-reverse battery connection function

can.

The chip changes the current of the LED lamp by changing the size of the external resistor R1; it is controlled by tapping the switch button: strong light \rightarrow dark light \rightarrow flashing, so follow

Ring; when long press the button has SOS function.

two, Features

□ Working voltage: 2.5V~4.5V

□ Working current: <1mA

☐ Working temperature: ≤85°C

🛛 Maximum power consumption: 0.5uA

Current limiting protection function

Over-temperature protection function

Output short circuit protection function

Anti-reverse battery protection function

Package: SOT23-6

three, Applications

Mainly used in high-power LED headlights and other lamps.

four, Pin diagram and pin description



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Miner's lamp control

Fives, Electrical parameters (Ta=25°C, VCC=3.7V, LED=1W unless otherwise stated)

symbol	parameter	Test Conditions		Minimum value	Typical value	Maximum	unit
lcc	Working current	After starting	bright	60	80	100	etc.
			1/4 bright	70	90	110	
			flicker	60	80	100	
			Extinguish	-	0	-	
			Long press SOS	60	80	100	
Vcc	Operating Voltage	start up		-	2.5	-	V
		Shut down		-	2.0	-	
fLED	LED switching waveform frequency	Half bright		-	sixteen	-	Khz
		flicker		-	8	-	HZ
Ron	On-resistance	-		-	110	-	mΩ
Imax	Maximum fluency	-		-	2.4	-	А
Thousand	Over temperature protection point	Shut down		-	190	-	°C
		restore		-	175	-	°C

6. Typical application circuit diagram

