

ZXLD1370 ZXLD1370EST16TC 设计的60V LED驱动方案

产品名称	ZXLD1370 ZXLD1370EST16TC 设计的60V LED驱动方案
公司名称	深圳市长亮源科技有限公司
价格	10.00/个
规格参数	类型:驱动ic 品牌:zetex/捷特科 型号:zxld1370est16tc
公司地址	中国 广东 深圳市 福田区深南中路南光捷佳大厦1920室
联系电话	86-755-88878818 075588878838

产品详情

diode公司的zxld1370是60v高精度降压/升压/升降压led驱动控制器,输出电流精度0.5%,工作电压6v-60v,dc调光比20:1,500hz的调光比达1000:1,工作频率高达1mhz,可驱动超过15个串联的led.本文介绍了zxld1370主要特性,降压配置框图,升压/升降压配置框图,ovp保护电路,和2.8a降压led驱动电路图,

400ma升压led驱动电路图,700ma升-

降压led驱动电路图以及相应电路的材料清单与降压和升降压配置电路pcb布局图.zxld1370:60v high accuracy

buck/boost/buck-boost led driver controllerthe zxld1370 is an led driver controller ic for driving external mosfets to drive high current leds. it is a multitopology controller enabling it to efficiently control the current through series

connected leds. the multi-topology enables it to operate in buck, boost and buck-boost configurations.the 60v capability coupled with its multi-topology capability enables it to be used in a wide range of applications and drive in excess of 15 leds in series.the zxld1370 is a modified hysteretic controller using a patent pending control scheme

providing high output current accuracy in all three modes of operation. high accuracy dimming is achieved through dc control and high frequency pwm control.the zxld1370 uses two pins for fault diagnosis. a flag output highlights a fault, while the multi-level status pin gives further information on the exact fault.zxld1370主要特性:

- 0.5% typical output current accuracy
- 6 to 60v operating voltage range
- led driver supports buck, boost and buck-boost configurations
- wide dynamic range dimmingo 20:1 dc dimmingo 1000:1 dimming range at 500hz
- up to 1mhz switching
- high temperature control of led current using tadj

图1.zxld1370降压配置框图图2.zxld1370升压/升降压配置框图图3.zxld1370采用热敏电阻和tadj降压-升压配置框图图4.zxld1370

ovp保护电路图5.zxld1370降压和升降压配置电路布局图图6.zxld1370

2.8a降压led驱动电路图2.8a降压led驱动电路材料清单:图7.zxld1370

400ma升压led驱动电路图400ma升压led驱动电路材料清单:图8.zxld1370 700ma升-

降压led驱动电路图700ma升-降压led驱动电路材料清单

本产品的类型为驱动IC,型号是ZXLD1370EST16TC,批号为1037,品牌是Zetex/捷特科,封装为SSOP-16,