

SCT2361：集成了3.3V和150mALDO的4V-28V_{in}、6A同步降压DCDC转换器

产品名称	SCT2361：集成了3.3V和150mALDO的4V-28V _{in} 、6A同步降压DCDC转换器
公司名称	深圳诺胜金科技有限公司
价格	.00/件
规格参数	
公司地址	深圳市宝安区西乡街道固戍社区塘西综合楼A213 (注册地址)
联系电话	15019947865

产品详情

特点：

Wide 4V-28V Input Voltage Range 0.6V-5.5V Output Voltage Range 6A Continuous Output Current Integrated 36m/16m R_{ds(on)} of HS/LS Power MOSFETs A 3.3V, 150mA LDO Integrated Fixed 1ms Soft-start Time Fixed 400KHz Switching Frequencies Selectable PWM, PFM and USM Operation Modes Cycle-by-Cycle Current Limiting Output Over-Voltage Protection Over-Temperature Protection Available in a QFN 12-leads 3mmx3mm Package

应用：Auto DTV, Monitor/LCD Display Printer, Charging Station Industry PC

描述：The SCT2361 is a high efficiency synchronous step down DC-DC converter integrated with a 3.3V, 150mA LDO. With the wide 4V-28V input voltage range and adjustable output voltage down to 0.6V, the SCT2361 supplies continuous 6A output current. The device fully integrates high-side and low-side power MOSFETs with 36m/16m on-resistance to minimize the conduction loss. The Supply of integrated 3.3V output LDO has path management between V_{in} and DC-DC converter output to achieve the lower power loss and better thermal performance. The SCT2361 adopts a Constant On-Time (COT) control to provide fast transient response and easy loop stabilization. The device offers fixed 1ms soft start to prevent inrush current during the startup of output voltage ramping. The SCT2361 has the MODE pin to select Pulse Frequency Modulation (PFM) operation mode to achieve the light load power save, or Ultrasonic Mode (USM) to keep the switching frequency above audible frequency areas during light-load or no-load conditions, or the PWM mode to achieve the small output ripple. Full protection includes over current protection, under voltage protection, and thermal shutdown. The converter requires a minimum number of external components and is available in a QFN- 12 (3mmx3mm) package.