

TD1583 TD泰德授权代理商 DCDC降压IC

产品名称	TD1583 TD泰德授权代理商 DCDC降压IC
公司名称	深圳市宏德伟创科技有限公司
价格	.00/个
规格参数	
公司地址	深圳市福田区华强北街道华航社区深南中路3006号佳和华强大厦A座30层02
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产品详情

深圳市宏德伟创科技有限公司(美国泰德授权代理可看证) (原厂原装, 美国设计, 原厂技术支持,)

泰德TD1583性能概要: (1) 非常低压差操作: 占空比 (2) 宽的输入电压范围3.6V至28V (3) 宽的输出电压范围1.22V至26V (4) 输出电流3A (5) 固定开关频率: 380KHz (6) 高效率: 达93% (7) 过流保护, 过热关断保护 (8) SOP-8封装

应用领域:

便携式DVD液晶显示器/电视电池充电器ADSL调制解调器电信/网络设备等等

The TD1583 is a 380 KHz fixed frequency monolithic step down switch mode regulator with a built in internal Power MOSFET. It achieves 3A continuous output current over a wide input supply range with excellent load and line regulation.

The device includes a voltage reference, oscillation

circuit, error amplifier, internal PMOS and etc.

The PWM control circuit is able to adjust the duty ratio linearly from 0 to . An enable function, an over current protection function and a short circuit protection function are built inside. An internal compensation block is built in to minimize external component count.

The TD1583 serves as ideal power supply units for portable devices.

The maximum junction temperature of TD1583 is 145 ° C, which limits the maximum load current capability. Please see the thermal de-rating curves for the maximum load current of the TD1583 under different ambient temperatures.

The thermal performance of the TD1583 is strongly affected by the PCB layout. Extra care should be taken by users during the design process to ensure that the IC will operate under the recommended environmental conditions.

Several layout tips are listed below for the best electric and thermal performance.

1. Do not use thermal relief connection to the VIN and the GND pin. Pour a maximized copper area to the GND pin and the VIN pin to help thermal dissipation.
2. Input capacitor should be connected to the VIN pin and the GND pin as close as possible.
3. Make the current trace from VOUT pins to L to the

GND as short as possible.

4. Pour copper plane on all unused board area and connect it to stable DC nodes, like VIN, GND, or VOUT.

5. Keep sensitive signal traces such as trace connecting FB pin away from the VOUT pins.

DC/DC降压系列。。。