

TEMPERATURE REGULATION

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[Thermostatic Probes Cantherm Canadian Thermostats ...](#)

The thermostatic switches will either make or break an electrical circuit at a pre-determined temperature and depending upon the type used will act as a thermal protector or a temperature regulator. Contact Cantherm's technical sales staff to design a probe that fits your needs. Thermostatic Probes. Applications Automotive Household Appliances HVAC Agricultural Equipment

[LTM8050 - 58V, 2A Step-Down Module Regulator](#) to 125 C internal operating temperature range. The LTM8050MP is The LTM8050MP is guaranteed to meet specifications over the full 55 C to 125 C internal [PRODUCT DATASHEET AAT2522 SwitchRegTM Dual High-Current ...](#)

Over-temperature and short-circuit protection safeguard the AAT2522 and system components from damage. The AAT2522 is available in a Pb-free, space-saving 16-pin 3mm x 4mm TDFN package. The product is rated over an operating temperature range of -40 C to +85 C. Features Dual 3.0A Peak Output Current Regulators 2.7V to 5.5V Input Voltage Range Adjustable Output Voltage (0.6V to V

[LTM8033 Ultralow Noise EMC 36VIN, 3A DC/DC Module Regulator](#)

to 125 C internal operating temperature range. The LTM8033MP is The LTM8033MP is guaranteed to meet specifications over the full 55 C to 125 C internal [3.0A Low Output Voltage Ultra LDO Regulator TJ47300](#)

[3.0A Low Output Voltage Ultra LDO Regulator TJ47300](#) 2011 Preliminary - 1 - HTC FEATURES Operating Junction Temperature Range TJOPR-40 125 Package Thermal Resistance * JA-SOP8-PP 68 C/W * Calculated from package in still air, mounted to 2.6mm X 3.5mm (minimum foot print) 2 layer PCB without thermal vias per JE5D51 standards. [3.0A Low Output Voltage Ultra LDO Regulator TJ47300](#) 2011

[A13 StepDown Controller with Dal 2.1Hz StepDown DCDC Conerters](#)

[A13 StepDown Controller with Dal 2.1Hz StepDown DCDC Conerters](#) General Description The MAX16993 power-management integrated circuit (PMIC) is a 2.1MHz, multichannel, DC-DC convert-

[3.0A, Low-Voltage Cap LDO Regulator](#) voltage at full load and over temperature makes it especially valuable in battery-powered systems and as high efficiency noise filters in post-regulator applications.

Unlike older NPN-pass transistor designs, where the minimum dropout voltage is limited by the base-emitter voltage drop and collector-to-emitter saturation voltage, dropout performance of the PNP output of these devices.

1A Low Dropout Positive Voltage Regulator

1A Low Dropout Positive Voltage Regulator temperature reaches the temperature limit. The XB1117 series provide stable line and load regulation by using an input capacitor and an output capacitor (10 F, tantalum). Package is available in SOT-223. APPLICATIONS Highly efficient linear regulators 5V ~ 3.3V DC / DC converter Battery charger Local power supply inside equipment Battery powered

LM1577/LM2577 SIMPLE SWITCHER Step-Up Voltage Regulator

LM1577, LM2577 SNOS658D JUNE 1999 REVISED APRIL 2013 www.ti.com Electrical Characteristics LM1577-12, LM2577-12 (continued) Specifications with standard type face are for $T_J = 25^\circ\text{C}$, and those in bold type face apply over full Operating Temperature

EP5368 R 1 1 - futureelectronics.com

industrial temperature range and up to 700mA over the commercial temperature range. The small footprint makes this part ideal for space constrained portable applications. Shutdown current of $<1\mu\text{A}$ extends battery life Output voltage level is programmed via a 3-pin VID selector providing seven pre-programmed output voltages along with an option for external resistor divider. Applications 30V Voltage Resistance 0.1A LDO Regulators - rohm.com

(The temperature mentioned below is a guaranteed temperature, therefore, margins must be considered.) 1. Ambient temperature T_a is 85°C and below. 2. Junction temperature T_j is 150°C and below. The junction temperature T_j can be determined as follows: Calculation based on ambient temperature T_a $T_j - T_a = \theta_j - a W$ $\theta_j - a$: SOT89-3K 74.8 $^\circ\text{C/W}$ JEDEC standard 4 layers PCB Board Nuvoton Maximum 3A, Ultra Low Dropout Regulator NCT3730S ...

line, load and temperature, and provides a Power Good indicator to indicate if the voltage level of output voltage reaches 90% of its rating value. 2. FEATURES z Maximum 3A Ultra Low-Dropout Voltage Regulator z High Accuracy Output Voltage 1.5% z Adjustable Output from 0.8V z Typically 210mV Dropout at 3A z Input Voltage as low as 1.0V z Power Good Indicator z Thermal and Over Current

1A, 2.2MHz, Synchronous Step-Down Regulator

RT8030-3 DS8030-02 March 2011 www.richtek.com

Operation Main Control Loop The RT8030 is a monolithic, constant-frequency, current mode step-down DC/DC converter.

INPUT 3 INPUT OUTPUT ADJ/GND ADJ/GND

Operating Junction Temperature: 0 to +125 C Line

Regulation: 0.015% (Typ) Load Regulation: 0.1% (Typ)

Adjust Pin Current: 6 A (Typ) Minimum Load Current:

0.3mA (Typ) Compatible with Low ESR Ceramic

Capacitor Totally Lead-Free & Fully RoHS Compliant

(Notes 1 & 2) Halogen and Antimony Free, Green Device

(Note 3) Notes: 1. No purposely added lead. Fully EU

Directive 2002/95/EC (RoHS)

1.0A USB Port/Adapter Lithium-Ion/Polymer Battery Charger

1.0A USB Port/Adapter Lithium-Ion/Polymer Battery

Charger Battery temperature and charge state are fully

monitored for fault conditions. In the event of an over-

voltage or over-temperature condition, the device will

automatically shut down, thus protecting the charging

device, control system, and the battery under charge.

Status monitor output pins are provided to indicate the

battery