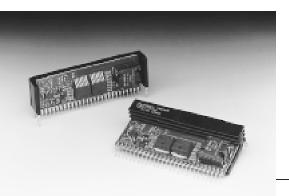
# PT7749—5V

18 Amp "Current Booster" for PT7700 Series



#### SLTS052A

(Revised 6/30/2000)



The PT7749 is a high-performance 18 Amp "Current Booster" for the PT7705/6 Regulators housed in a 27pin SIP package.

Multiple PT7749 boosters will operate in parallel with the PT7705/6 regulators, boosting output current in increments of 18A. Combinations of a PT7705/6 and PT7749 current boosters can easily supply enough power for virtually any multiple megaprocessor application.

#### **Pin-Out Information**

Pin Function Pin Function Do not connect 15 GND 2 Do not connect GND 16 GND Do not connect 17 3 GND Do not connect 18 Do not connect 19 GND 20 Do not connect Vout Vout Vin 21  $\overline{V}_{in}$ Vout 22 Vin 23 Vout Vin 24  $\mathrm{V}_{\mathrm{out}}$ 

A PT7749 current booster adds a parallel output stage driven directly by the main regulator. As such, the system runs in perfect sychronization providing a low noise solution.

The PT7749 only operates in combination with the PT7705/6 regulators and is not a stand-alone product. Therefore please refer the appropriate series data sheet for performance specifications.

#### **Features**

#### Current Boost

- Tracks Vout of PT7705/06/07
- High Efficiency ٠
- Input Voltage Range: 3V to 5.5V
- Synchronized with Regulator
- 27-pin SIP Package
- Run up to 4 in Parallel 90 Amps

#### 1 4 5 6 7 8 9 10 11 $V_{in}$ 25 Vout 12 Do not connect 26 Do not connect 13 GND 27 Master Sync In 14 GND

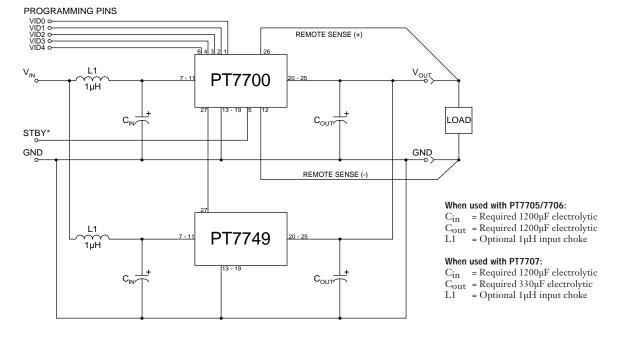
## **Ordering Information** PT7749

(For dimensions and PC Board layout, see Package Styles 800 and 810.)

## PT Series Suffix (PT1234X)

## Case/Pin

Configuration	
Vertical Through-Hole	Ν
Horizontal Through-Hole	Α
Horizontal Surface Mount	С



**Output Capacitors:** When used with a PT7705 or PT7706, the PT7749 requires a minimum ouput capacitance of 1200µF. When used with a PT7707, the PT7749 requires a minimum ouput capacitance of 330µF for proper operation. Do not use Oscon type capacitors. The maximum allowable output capacitance is 15,000µF. Input Filter: An input filter is optional for most applications. The input inductor must be sized to bandle 18ADC with a typical value of 1µH. The input capacitance must be rated for a minimum of 1.3Arms of ripple current. For transient or dynamic load applications, additional capacitance may be required.



# **Standard Application**

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