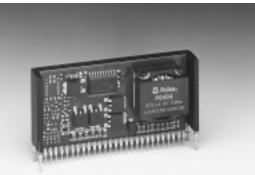
## PT7747—24V

15 Amp "Current Booster" for PT7750 Series



## SLTS050A

(Revised 6/30/2000)



The PT7747 is a high-performance 15 Amp "Current Booster" for the PT7750 Series housed in a 27-pin SIP package. Multiple PT7747 boosters will operate in parallel with the PT7750 Series boosting output current in increments of 15A . Combinations of PT7750s and PT7747 current boosters can easily supply enough power for virtually any multiple megaprocessor application.

**Pin-Out Information** 

A PT7747 current booster adds a parallel output stage driven by the PT7750. As such, the system runs in perfect sychroni– zation providing a low noise solution.

The PT7747 only operates in combination with the PT7750 series and is not a stand-alone product. Therefore please refer the PT7750 series data sheet for performance specifications. The PT7747 also has the same mechanical dimensions and package options as the PT7750 series.

# Features

- 15A Current Boost
- Automatically Tracks Vout of PT7750
- High Efficiency
- Input Voltage Range: 20V to 28V
- Synchronized with PT7750
- 27-pin SIP Package
- Run up to 4 in Parallel 75 Amps
- Pin Function Pin Function GND 1 14 Do not connect 2 Do not connect 15 GND 3 Do not connect 16 GND GND 4 Do not connect 17 GND 5 Do not connect 18 GND 6 Do not connect 19 Vout 7 Vin 20  $\mathbf{\bar{V}}_{in}$ 8 Vout 21 9 22  $\mathbf{V}_{\mathrm{out}}$  $V_{in}$ Vout 10  $V_{in}$ 23 11 Vin 24 Vout Vout 12 Do not connect 25 13 GND 26 Do not connect 27 Sync In

# PT Series Suffix (PT1234X)

**Ordering Information** 

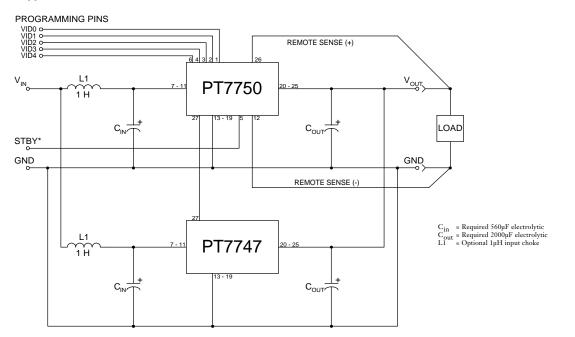
#### Case/Pin Configuration

PT77470

| Comguiation              |   |
|--------------------------|---|
| Vertical Through-Hole    | Ν |
| Horizontal Through-Hole  | Α |
| Horizontal Surface Mount | С |
| Horizontal Through-Hole  | A |

(For dimensions and PC board layout, see Package Styles 1000 and 1010.)

### **Standard Application**



**Output Capacitors:** The PT7750/PT7747 series requires a minimum output capacitance of 2000 $\mu$ F for proper operation. Do not use Oscon type capacitors. The maximum allowable output capacitance is (42,000 + Vout) $\mu$ F for the PT7751, (96,000 + Vout) $\mu$ F for the PT7756, or 15,000 $\mu$ F, whichever is less. **Input Filter:** An input inductor is optional for most applications. The input inductor must be sized to bandle 9ADC with a typical value of 1 $\mu$ H. The input capacitance engineer for input capacitor sets and output voltages and output currents.

