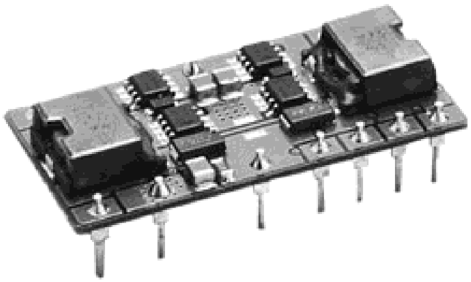
# DC/DC Converter 40 Watt
# TSI-40N Series

Further Documents:
pdf-datasheet (215KB)

- Step-down Switching Regulator
- Synchronous Rectification for ultra high Efficiency
- No Heat Sink required
- Adjustable Output Voltage
- Remote ON/OFF
- Continuous Short Circuit Protection
- Low Output Noise
- Small DIL-Package



| | |
|---|---|
| **Line regulation:** | ±0.5% max. |
| **Load regulation:** | ±0.5% max. |
| **Output voltage rangre:** | adjustable by ext. resistor |
| **Transient response time:** | 240 µsec. (50-100% load step) |
| **Ripple & noise:** | < 50 mVpk-pk typ. (20 MHz BW) |
| **Short circuit protection:** | continuous |
| **Efficiency:** | 94% typ. |
| **Operating temperature range:** | -10°C ... +71°C (with forced air cooling) |
| **MTBF:** | >900'000 h @ +25°C |
| **Remote on/off:** | shutdown input for low current (4.5 mA typ. for TSI40-1210/ 100 µA for TSI40-1211) in standby operation |

## Standard Models

| Order code | Input voltage | Output voltage (adjustable range) | Output current max. |
|---|---|---|---|
| **TSI 40-1210** | 4.5 - 13.6 VDC | 3.3 VDC (1.0...3.3 VDC) | 12 A |
| **TSI 40-1211** | 8.0 - 13.6 VDC | 5.0 VDC (5.0...6.0 VDC) | 8 A |

## Pin-Out

| Pin | |
|---|---|
| 1 | Remote on/off |

| | |
|---|---|
| 2 | Signal GND |
| 3 | +Vin(Vcc) |
| 4 | -Vin(GND)/-Vout |
| 5 | No function |
| 6 | -Sense |
| 7 | -Vin(GND)/-Vout |
| 8 | +Vout |
| 9 | +Sense |
| 10 | No function |
| 11/12 | Vout adj. |