

# LM2596

## 3.0 A

LM2596/3.0 ALM2596150 kHz5TO-2205D2PAKLM2596/+/-4%+/-15%80 μA21.0ALM25950.5ALM2594

- Adjustable output voltage range, 1.2V to 37V +/-4% max over line and load conditions
- Available in TO-220 and D2PAK packages
- Guaranteed 3A output load current
- Input voltage range up to 40V
- Excellent line and load regulation specifications
- 150 kHz fixed frequency internal oscillator
- TTL shutdown capability
- Low power standby mode, Iq typically 80 μA
- Uses readily available standard inductors
- Thermal shutdown and current limit
- For more features, see the data sheet
- Flexible to configure for different output voltages and applications
- Different mounting options
- High power designs
- Can be used with several input voltage supplies (+12V, +24V, +36V)
- Provides a stable power supply
- No external component required to set frequency
- Easy to implement low power modes
- Power saving mode
- Quick and easy implementation
- Additional protection against faults
- Simple high-efficiency step-down (buck) regulator
- On-card switching regulators
- Positive to negative converter
- LCD-TV SMPS

	Pricing (\$/Unit)	Compliance	Status	Topology	Control Mode	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	V <sub>o</sub> Typ (V)	I <sub>o</sub> Typ (A)	Efficiency (%)	f <sub>sw</sub> Typ (kHz)	Package Type
LM2596DSADJG	1.1678	Pb H	Active	Step-Down	Voltage Mode	4.5	40	1.25	3	85	150	D <sup>2</sup> PAK-5
LM2596DSADJR4G	1.21	Pb H	Active	Step-Down	Voltage Mode	4.5	40	1.25	3	85	150	D <sup>2</sup> PAK-5
LM2596TVADJG	1.1917	Pb H	Active	Step-Down	Voltage Mode	4.5	40	1.25	3	85	150	TO-220-5

