

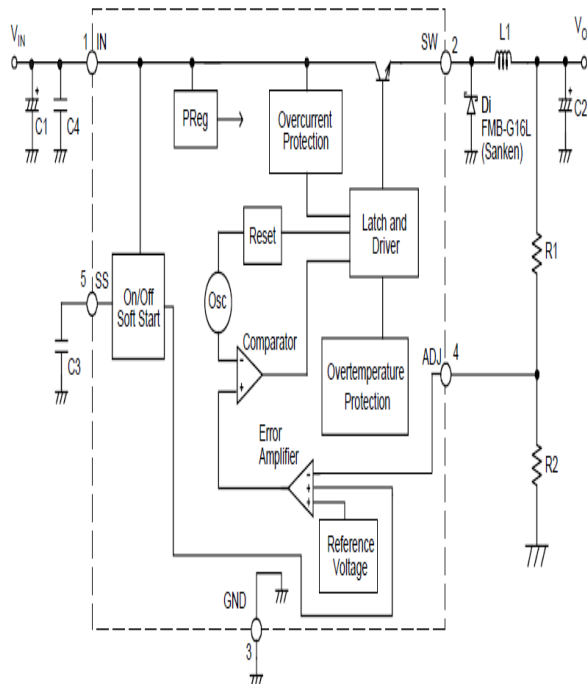
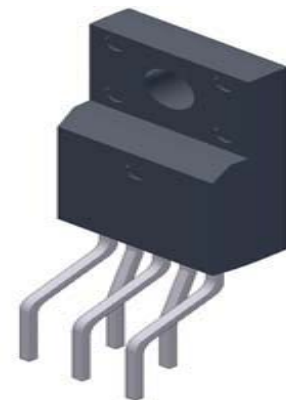


SI-8008HFE DC-to-DC Step-Down Converter

General Description:

The SI-8008HFE DC voltage regulator is a DC-to-DC buck converter that attains an oscillation frequency of 150 kHz, and has an integrated miniaturized choke coil, allowing it to serve as a small, high efficiency power supply in a compact TO220F package.

The internal switching regulator function provides high efficiency switching regulation without any need for adjustment. The device requires only six external support components. The optional soft start function requires an additional capacitor. Optional on/off control can be performed using a transistor. The SI-8008HFE includes over current and over temperature protection circuits.



Key Features:

- 5.5 A output current supplied in a small, through-hole mount power package
- High efficiency: 83% at $V_{IN} = 15\text{ V}$, $I_O = 3.0\text{ A}$, $V_O = 5\text{ V}$
- Requires only seven external components (optional soft start requires an additional capacitor)
- Oscillation circuit built-in (frequency 150 kHz typical)

- Constant-current mode over current protection circuit and over temperature protection circuit built-in
- Soft start function built-in (can be implemented as an on/off function; output-off state at low level)
- Low current consumption during output-off state

Applications:

- DVD recorder
- FPD TV
- Telecommunications equipment
- Office automation equipment, such as printers
- On-board local power supply
- Output voltage regulator for second stage of SMPS (switched mode power supply)

Related Products Information:

Mfr Part #	Farnell #	Newark #	Description
SI-8008HFE	1791399	54M5247	DC-to-DC Step-Down Converter-TO220F-5