

2.5V-15V Input, 4.8A Current Limit Switch

GENERAL DESCRIPTION

PW1555 is a programmable current limit switch with input voltage range selection and output voltage clamping. Extremely low $R_{DS(ON)}$ of the integrated protection N-channel FET helps to reduce power loss during the normal operation. Programmable soft-start time controls the slew rate of the output voltage during the start-up time. Independent enable control allows the complicated system sequencing control. It integrates the over-temperature protection shutdown and autorecovery with hysteresis.

This IC along with small DFN3X3-10 footprint provides small PCB area application.

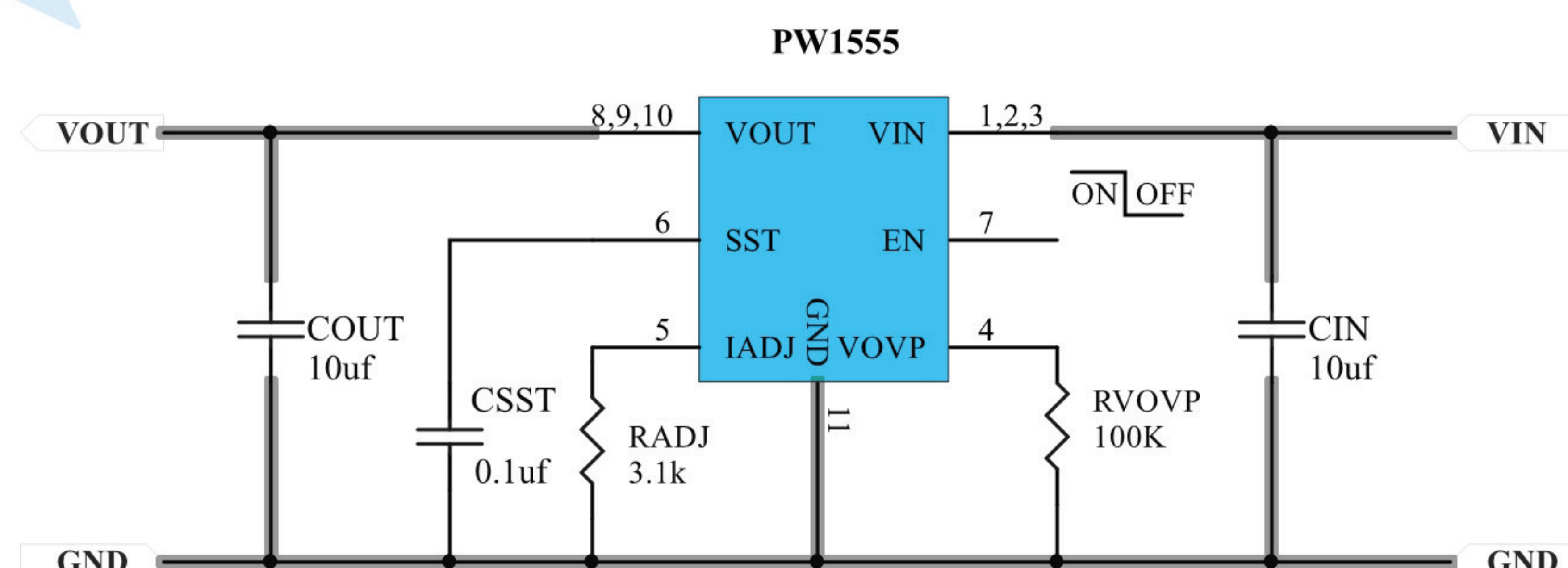
FEATURES

- Wide Input Voltage Range from 2.5V to 15V with surge up to 30V
- Extremely Low $R_{DS(ON)}$ for the Integrated Protection Switch: 40 m Ω
- Programmable Soft-Start Time
- Programmable Current Limit
- Short-circuit Protection
- Selectable Input Range and Clamping Output Voltage Threshold.
- Enable Interface Pin
- Thermal Shutdown Protection & Auto Recovery
- RoHS Compliant and Halogen Free
- Compact package: DFN3X3-10

APPLICATIONS

- Server
- Service PC
- Notebook PC
- pad Mini

TYPICAL APPLICATION CIRCUIT



VOVP:
1,Low: Vout: 3.6V, Over 4V;
2,High: Vout: 5V, Over 6V;
3,Open: Vout: 12V, Over 14V;

$ILIM(A) = 11 / RADJ(K\Omega)$, $RADJ=3.1K$, $ILIM=3.5A$

The minimum current limit is 1A. Current limit beyond 5A is not recommended.