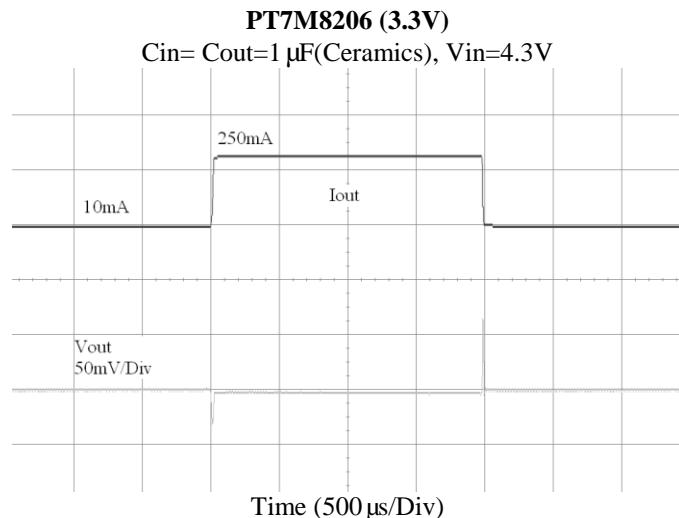
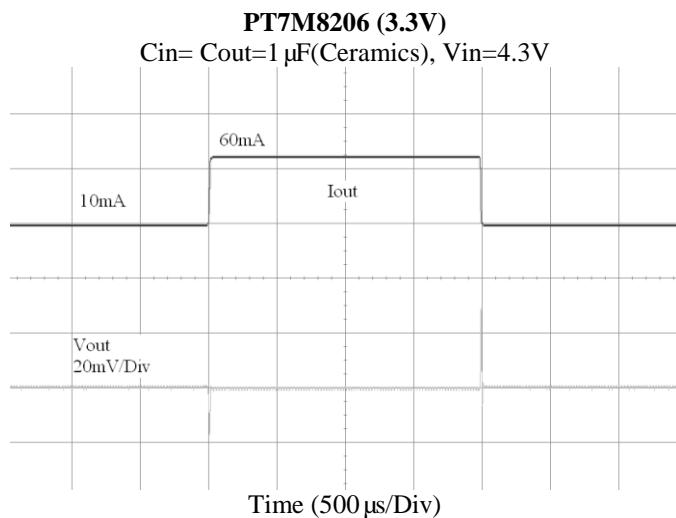
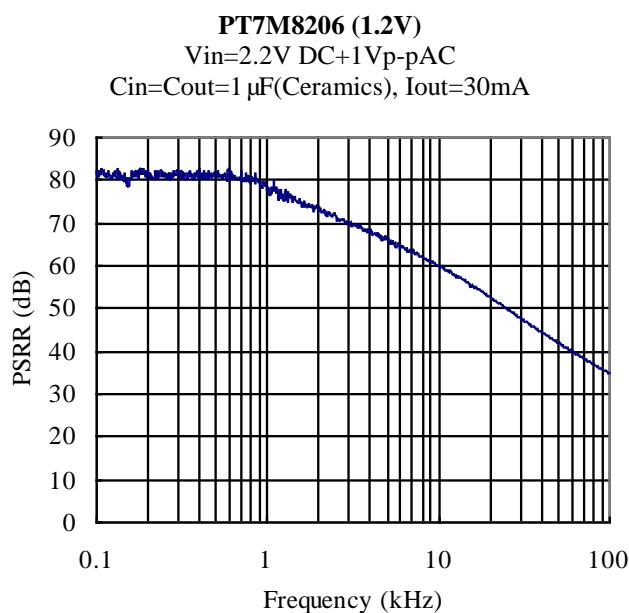


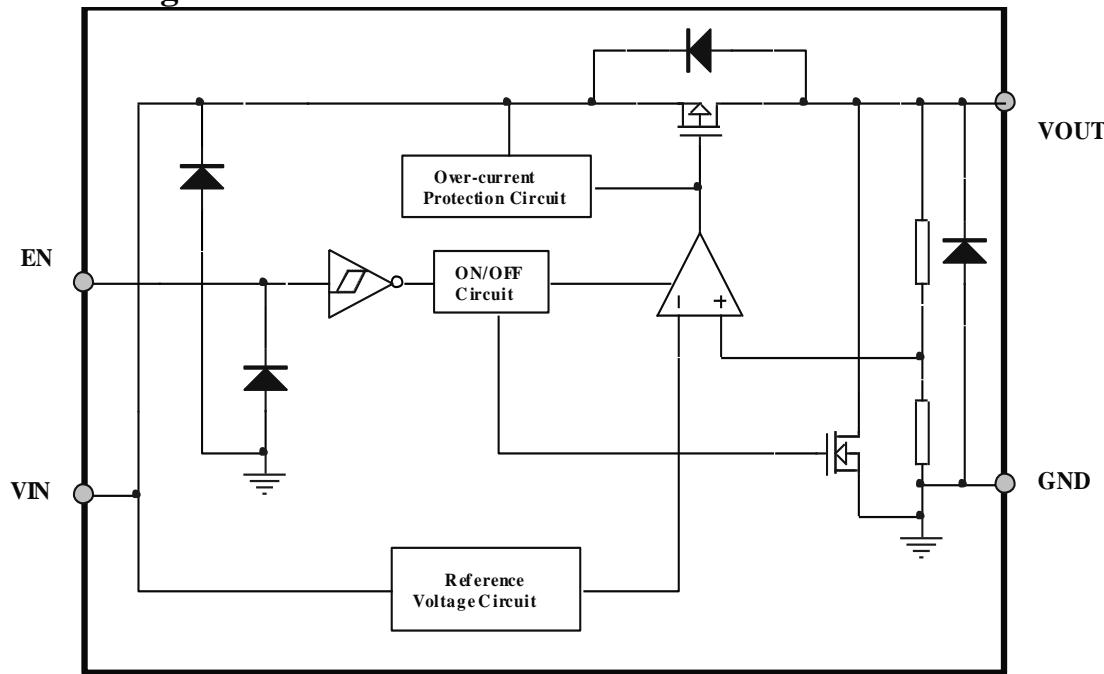
8. Load Transient Response



9. PSRR



Function block diagram



Functional Description (Refer to Function Block Diagram)

Output Voltage

The divided output voltage is compared with the internal reference voltage by the error amplifier with internal phase compensator. The output of the error amplifier then drives the P-channel MOSFET to maintain a stable and constant output voltage.

Low ESR Capacitors

The internal phase compensator maintains the stable output voltage with low ESR ceramic input and output capacitors. 1 μ F low ESR (X5R/X7R) ceramic capacitor located as close as possible to the IC's pins is recommended.

Current Limit and Thermal Shutdown Protections

Current limit protection is used to limit the output current when an overload condition occurs. As a result, the output voltage will drop. Thermal shutdown protection will turn off the output to reduce the power dissipation when the operation junction temperature exceeds 170 °C.

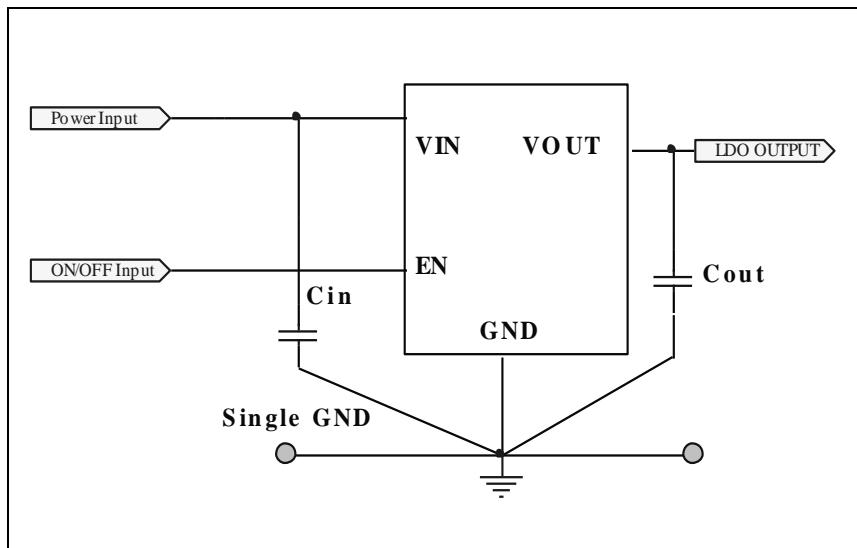
EN Pin

The output of the regulator in PT7M8206 can be controlled with EN pin. The EN pin should be connected to a "VIN" or a "GND" voltage as a floating input applied to inverter input of the enable circuitry will increase the current consumption.

■ NOTE ON USE

1. Please use this IC within the stated absolute maximum ratings.
2. Where wiring impedance is high, operations may become unstable due to noise and/or phase lag depending on output current. Please keep the resistance low between VIN and GND wiring in particular.
3. Please wire the input capacitor (Cin) and the output capacitor (Cout) as close to the IC as possible.

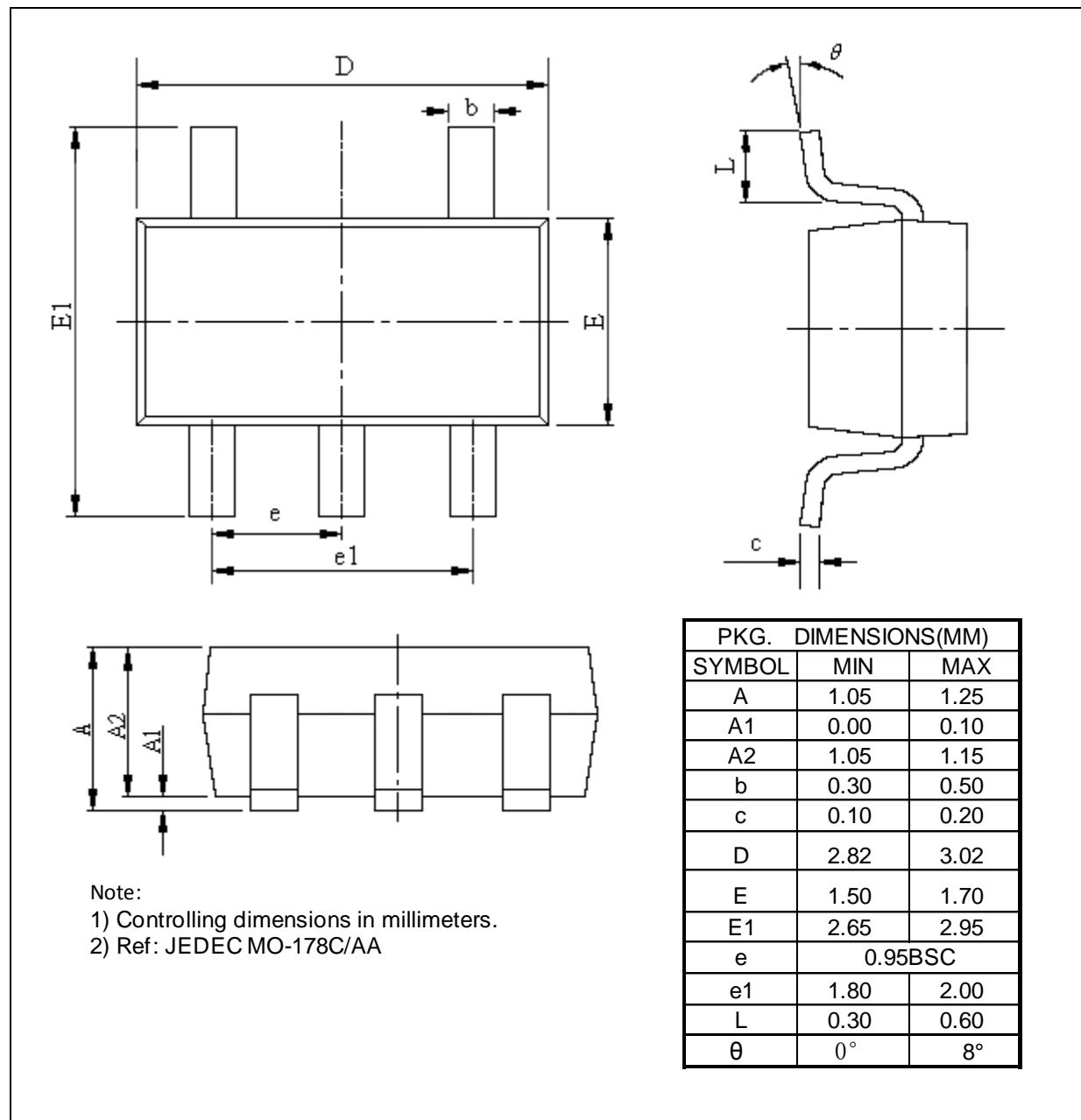
Application Circuit

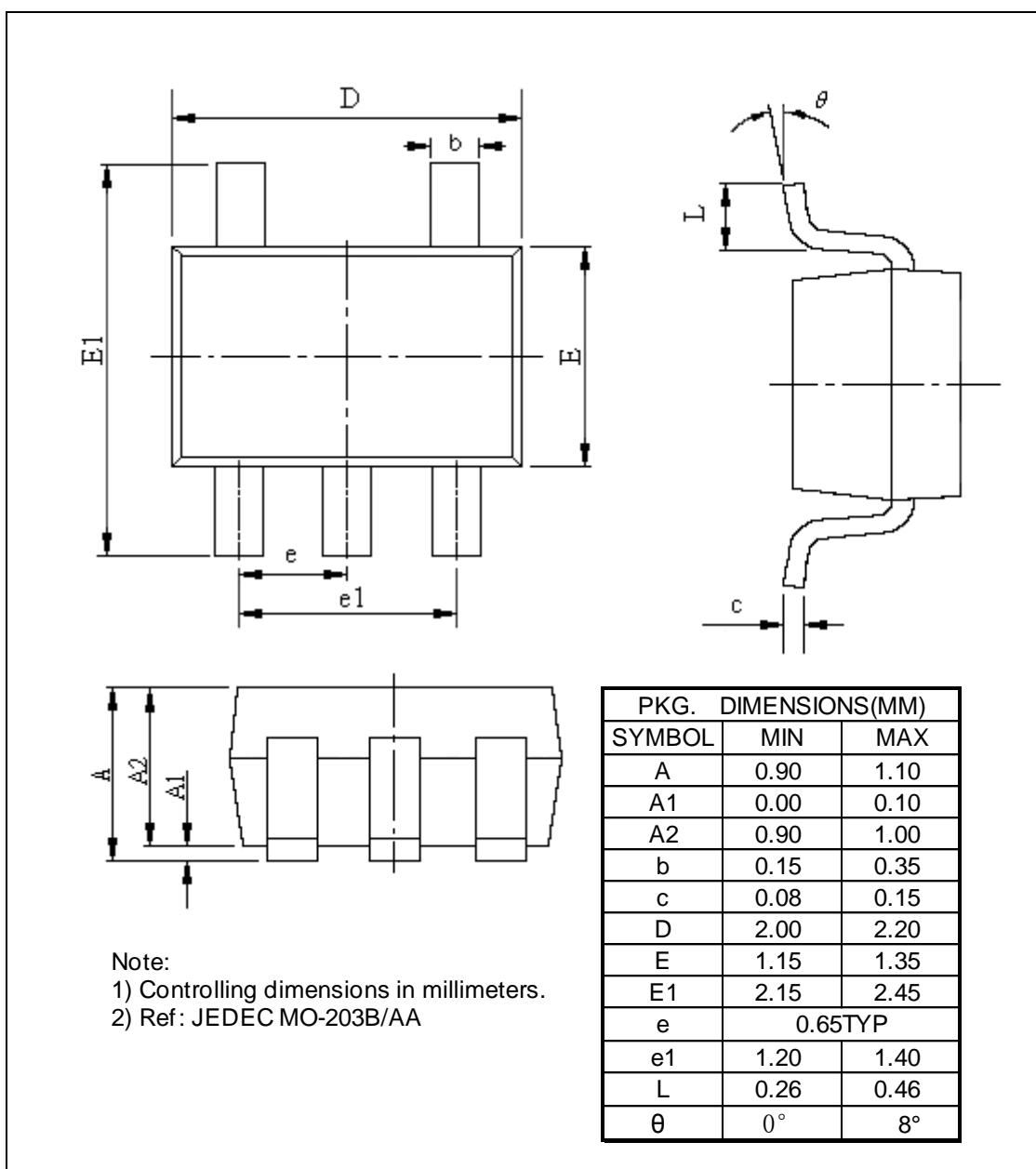


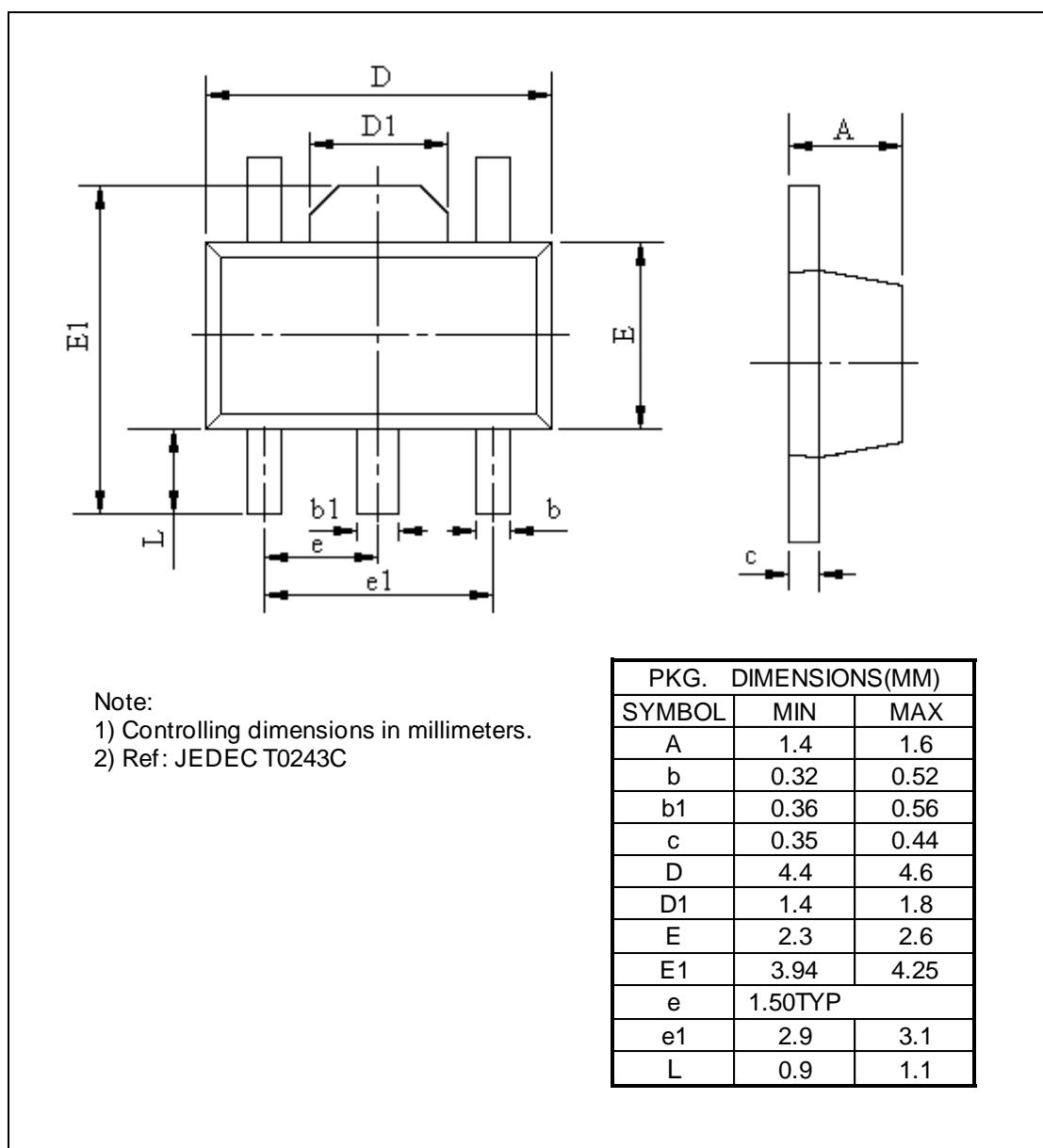
Note: $C_{in}=C_{out}=1\ \mu F$

Mechanical Information

TA (SOT23-5L)



C (SC70-5L)


TD(SOT89-5L)


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[TCR4DG105,LF](#) [NCV8170AMX360TCG](#) [MIC94310-NYMT-T5](#) [NCV8186BMN175TAG](#) [NCP715SQ15T2G](#) [MIC5317-3.0YD5-T5](#)
[NCV563SQ18T1G](#) [MIC5317-2.8YD5-T5](#) [NCP715MX30TBG](#) [MIC5317-2.5YD5-T5](#)