

ABSOLUTE MAXIMUM RATINGS

VDD Pin Voltage	-0.3V to 30V
Drain Pin Voltage	-0.3V to 550V
COMP/CS/DSEN Pins Voltage	-0.3V to 6V
Lead Temperature (soldering, 10 sec.)	260°C
P _{DMAX} (maximum power consumption)	0.8W
Storage Temperature	-55°C to 150°C
Junction Temperature (Tj)	150°C

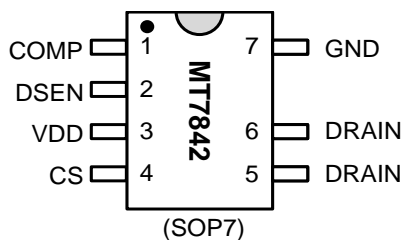
RECOMMENDED OPERATING CONDITIONS

Supply voltage	7.2V to 12V
Operating Temperature (Environment)	-40°C to 105°C
Output Power	≤ 9W @ ≤90°C (Environment temperature)

THERMAL RESISTANCE

Junction to ambient (R _{θJA})	128°C/W
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PIN CONFIGURATIONS



Chip Mark

MT7842

XX Y WW XX

— Manufacturing code
— Week code
— Year code
— Manufacturing code

PIN DESCRIPTION

Name	Pin No.	Description
COMP	1	Internal EA's output pin. Connect a capacitor to ground for frequency compensation.
DSEN	2	Feedback pin for inductor zero current crossing detection.
VDD	3	Power Supply pin.
CS	4	Source of internal MOSFET, and Current Sense pin.
DRAIN	5,6	Drain of internal MOSFET.
GND	7	Ground pin.