



**ABSOLUTE MAXIMUM RATINGS**

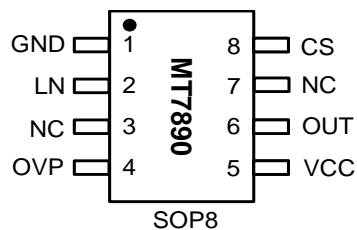
VCC maximum sink current	5mA
OVP (over voltage protection pin voltage)	-0.3 ~ 6V
LN (line compensation pin voltage)	-0.3 ~ 6V
OUT (Gate driver pin voltage)	-0.3V ~ 40V
CS (current sense pin input voltage)	-0.3V ~ 6V
P <sub>DMAX</sub> (maximum power consumption)	0.8W
Storage Temperature	-55°C ~ 150°C
Junction Temperature (T <sub>j</sub> )	150°C

**RECOMMENDEDE OPERATING CONDITIONS**

Operating Temperature range	-40°C ~ 105°C
Output Power	<50W @ V <sub>OUT</sub> =36V

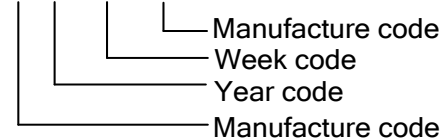
**Thermal resistance**

Junction to ambient (R <sub>θJA</sub> )	128°C/W
Junction to Case (R <sub>θJC</sub> )	90°C/W

**PIN CONFIGURATIONS**

**Chip Mark**

MT7890

X YY WW XX


**PIN DESCRIPTION**

Name	Pin No.	Description
GND	1	Chip ground
LN	2	Line compensation pin. Tie to GND to disable line compensation function
NC	3	No Connection
OVP	4	Adjustable over voltage protection pin
VCC	5	Power supply, internal clamped at 19V
OUT	6	Gate driver pin, connect this pin to the gate of external power MOSFET
NC	7	No Connection
CS	8	Current sense pin, connect a sense resistor to ground