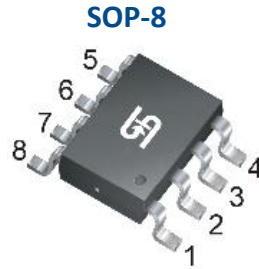


TS19320CS

Phase-Cut Dimmable Flyback or Buck-Boost Current Control
with Active PFC for LED lighting


Pin Definition:

1. HV	8. GND
2. RT	7. OUT
3. CS	6. V _{CC}
4. COM	5. DMG

The TS19320CS is a phase-cut (TRIAC) dimmable constant current control IC with active power factor correction isolated or non-isolated AC-DC LED lighting control. The TS19320CS is configurable as an isolated, primary-side-regulated Flyback controller or non-isolated Buck-Boost converter. It is compatible with many types of TRIAC dimmers including leading-edge and trailing-edge. The IC achieves a high power factor and low total harmonic distortion (THD) and guarantees constant current accuracy to $<\pm 5\%$ using Boundary Conduction Mode (BCM) operation. The TS19320CS has built-in protection circuits such as gate voltage clamping, over temperature protection by current degeneration, VCC overvoltage protection and system output open/short circuit protection.

Features:

- Constant current accuracy $<\pm 5\%$
- Flyback or Buck-Boost w/o photocoupler
- Good dimmer compatibility for 120/230V_{AC} Lamps
- Boundary-mode PFC operation
- Built-in active power factor correction
- High voltage (500V) startup circuit
- Open-LED demagnetization (DMG) protection
- VCC over-voltage protection (OVP)
- Over-temperature protection (OTP)
- Shorted-LED Protection
- Cycle-by-cycle current limit
- Gate drive voltage clamping

Application:

- LED lighting
- Down lights, Tube lamps, PAR Lamps, Bulbs



Comparable Alternative:

TSC	Package	Diodes
TS19320CS	SOP-8	AP1694

Package Information:

Outline (Package)	Reel	Reel Size	Inner Box	Carton	Carton Size	Gross Weight	Packing Code
	(pcs)	(inch)	(pcs)	(pcs)	(mm)	(kg/ carton)	
SOP-8	2,500	13	5,000	25,000	360*355*270	7.6	RLG

Samples of TS19320CS can be ordered on Product Detail page:
<http://www.taiwansemi.com/en/products/details/TS19320CS>

For pricing and more information, please contact TSC sales or authorized distributors worldwide:
www.taiwansemi.com/en/contact