

## High Performance SSR Switcher

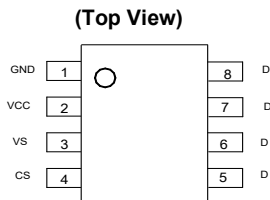
### Description

The uP5298 is current mode PWM switcher for off-line AC-DC adapters with low standby power and high conversion efficiency.

The switching frequency of uP5298 at normal operation is internally fixed at 65KHZ under heavy load, and it switches to green mode with lower frequency of 25KHZ under middle load. The IC will enter burst mode to lower switching loss under no load.

The uP5298 provides complete protection functions with automatic self-recovery feature including cycle-by-cycle current limiting, over load protection (OLP), over temperature protection (OTP), Vcc over voltage clamp and under voltage lockout. The uP5298 is offered in SOIC-8 package.

### Pin Assignments



### Applications

AC-DC off-line flyback converters

- Power Adapters
- Chargers, PD, Power tools

### Features

- Multi-mode operation: PWM, Green and Burst Mode
- Wide VCC Range up to 60V
- Output Power: up to 25W
- Burst mode under no load
- Audible noise free operation
- OTP, OLP, OVP
- Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)

Notes: 1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant.  
2. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Pin1	GND	Signal ground
Pin2	VCC	Power supply
Pin3	VS	Feedback. Connected to the opto-Coupler
Pin4	CS	Current sense
Pin5-8	D	Drain

### Ordering Information

Part Number	Package	Marking ID	Packing
uP5298	SOIC-8	uP5298M	4000/tape and reel

### Typical Applications Circuit

