FA3641/47

Description

- These are CMOS voltage mode IC's for off-line converter.
- These IC's are optimum for the converter which is required high efficiency at standby or no-load because operating frequency decreases automatically at light-load and the operating current is low.

Features

- •Low current consumption by CMOS process standby:2 μ A(max.),operating:1.9mA(typ.)
- •Operating frequency decreases automatically in order to reduce the switching loss at light-load.
- •Overvoltage protection function detecting the Vcc voltage
- •Direct driving circuit for a power MOSFET(source:0.5A,sink:1A)
- •Pulse-by-pulse overcurrent protection function
- •Overload cutoff function (latch or non-latch)
- •ON/OFF control function by external signal
- •UVLO function
- •Package:DIP-8/SOP-8



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Electrical characteristics

Item		Characteristics
Supply voltage		10 to 28VDC
Output	Source	500mA
current	Sink	1A
Oscillation	Normal-load	30kHz to 500kH z
frequency	Light-load	More than 10kHz
Reference voltage		$5V\pm5\%$
Dmax		70%
	FB terminal voltage	1.18V
fosc	when fosc start	
decrease	decrease	
function	Lowest frequency	0.46*fosc
	(FB=1V)	(adjustable)
Overcurrent	FA3641	+
detection	FA3647	
Junction temperature		−30 to +125°C
Storage temperature		-40 to +150°C







