Product	D2312
Product Info	1A Step-Down DC-DC Converter
Description	The D2312 is a step-down current-mode, DC-DC converter. A theavy load, the constant-frequency PWM control performs excellent stability and transient response. To ensure the longest battery life in portable applications, the D2312 provides a power-saving Pulse-Skipping Modulation (PSM) mode to reduce quiescent current under light load operation to save power. The D2312 supports a range of input voltages from 2.5V to 5.5V, allowing the use of a single Li+/Li-polymer cell, multiple Alkaline/NiMH cell, USB, and other standard power sources. The output voltage is adjustable from 0.6V to the input voltage, while the part number suffix D2312- XX indicates pre-set output voltage of 3.3V, 2.8V, 2.5V, 1.8V, 1.5V, 1.2V or adjustable. All versions employ internal power switch and synchronous rectifierfor to minimize external part count and realize high efficiency. During shutdown, the input is disconnected from the output and the shutdown current is less than 1µA. Other key features include under-voltage lockout to prevent deep battery discharge.The D2312 is available in SOT23-5 packages.
Features	 Efficiency up to 96% Only 40 µA(TYP.) Quiescent Current Output Current: Up to 1A Internal Synchronous Rectifier 1.5MHz Switching Frequency Soft Start Under-Voltage Lockout Short Circuit Protection Thermal Shutdown 5-pin Small SOT23-5 Packages Pb-Free Package
Applications	 Cellular Phone Portable Electronics Wireless Devices Cordless Phone Computer Peripherals Battery Powered Widgets Electronic Scales

	Digital Frame
Typical Application	Fixed Output Voltage Adjustable Output Voltage
	$\begin{array}{c} V \\ 10 \mu F \\ \hline \\ U \\ W \\ U \\ W \\ W \\ W \\ W \\ W \\ W \\ W$
	$V_O = 0.6 \times \left(1 + \frac{R1}{R2}\right)$
IOUT (Max)	1A
VIN Range	2.5 to 5.5 V
YOUT	ADJ / 3.3 / 2.8 / 2.5 / 1.5 / 1.8 / 1.2 V
Feed back	0.6 V
Vol tage	
Switch	1500 kHz
Frequency	
Adjustable	0.6 to 5.5
Output	
Package	SOT23-5
Datasheet	Click here to download datasheet
Download	
Buy	Contact customer service