



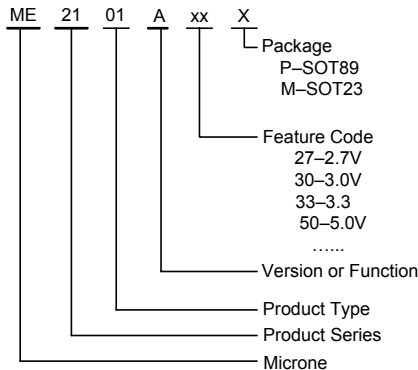
ME2101 Series Step-up DC-DC Converter

ME2101 Series is a PWM Step-up DC/DC converter IC with low supply current by CMOS process. High frequency noise that occurs during switching is reduced by using advanced circuit designed, output voltage is programmable in 0.1V steps between 2.0~5.0V and maximum frequency is 100KHz(Typ.). A low ripple, high efficiency step-up DC/DC converter can be constructed of ME2101AxxX with only three external components. Also available is a CE(chip enable) function that reduce power dissipation During shut-down mode., and an independent Vdd pin function (separated power supply and voltage detect pins) for fly-back circuits. An inner soft-start circuit limits current surges from input power supply at start up and the reliability of the chip is improved. ME2101XxxX is suitable for use with battery-powered instruments with low noise and low supply current.

Features

- Small number of external components: only an inductor, a diode and a capacitor;
- Low ripple and low noise;
- Operating voltage range: 0.9V~6.5V;
- Output voltage range: 2.0V~5.0V(step 0.1V);
- Output voltage accuracy: $\pm 2.5\%$;
- Output Current: if $V_{in}=3.0V$ and $V_{out}=3.3V$, then $I_{out}=350mA$;
- Low start voltage: $\leq 0.9V$ (at $I_{out}=1mA$);
- Maximum oscillator frequency: 100KHz(Typ.);
- High Efficiency: 87%(Type);
- Slow-Start Time : 15mS(Type);
- PACKAGE: SOT-23, SOT-89.

Selection Guide



Applications

- Power source for battery-powered equipment;
- Power source for wireless mouse, wireless keyboard, toys, cameras, camcorders, VCRs, PDAs, and hand-held communication equipment;
- Power source for appliances which require higher cell voltage than that of batteries used in the appliances.

TYPE	POSTFIX	PACKAGE	SWITCHING TRANSISTOR	CE FUNCTION	FEATURES
ME2101Axx	M	SOT-23-3	Build_in Transistor	No	Lx
	P	SOT-89-3			
ME2101Bxx	M	SOT-23-3	External Transistor	No	Ext
	P	SOT-89-3			
ME2101Cxx	M	SOT-23-5	Build_in Transistor	Yes	Lx+CE
	P	SOT-89-5			
ME2101Dxx	M	SOT-23-5	External Transistor	Yes	Ext+CE
	P	SOT-89-5			