XC6351A Series

Charge Pump Voltage Inverter IC

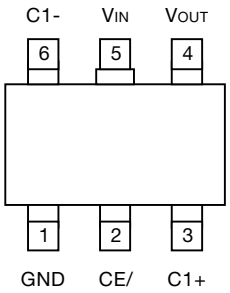
General Description

The XC6351A series are charge pump voltage inverter ICs that have 4 MOSFETs built in. Since highly efficient negative voltages can be generated with only 2 external capacitors connected, GaAs bias power supplies & OpAmp's negative power supplies etc., can be easily accomodated on a standard PCB. A mini-molded, 6 pin, SOT-26 package provides for space saving and makes high density mounting possible.
Low power consumption and high efficiency make this series perfect for use with battery operated applications.
Since the IC's operations stop when output is shutdown via the CE (chip enable) function, total power consumption reduction is possible in applications which use this IC.

Features

Operating Voltage Range: 1.2V to 5.0V
Oscillator Frequency: 120kHz
35kHz (custom)
Low Supply Current: 310μA (typ)
100μA (typ ; 35kHz)
High Efficiency: 90% (typ) (RL = 2kΩ)
Stand-by Current: 2.0μA (max.)
Ultra Small Package: SOT-26 mini mold

Pin Configuration

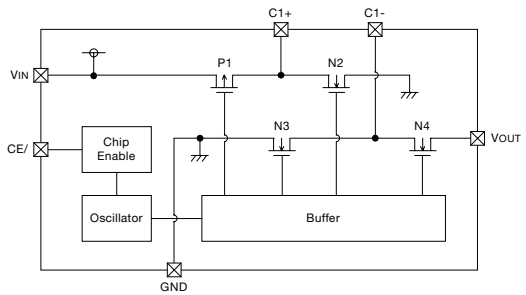


SOT-26
(TOP VIEW)

Pin Assignment

PIN NUMBER	SYMBOL	FUNCTION
1	GND	Ground
2	CE/	Chip Enable (-ve logic)
3	C1+	External Capacitor +Pin
4	VOUT	Reverse Output Pin
5	VIN	Power Supply Pin
6	C1-	External Capacitor -Pin

Block Diagram



Ordering Information

XC6351A①②③④⑤

SYMBOL	DESCRIPTION		
①②③	120	Oscillation frequency	120kHz
	035	Oscillation frequency	35kHz (custom)
④	M	Package	SOT-26
⑤	R	Embossed Tape	Standard feed
	L	Embossed Tape	Reverse feed