



**THE DATASHEET OF
BD6112FVM-TR**



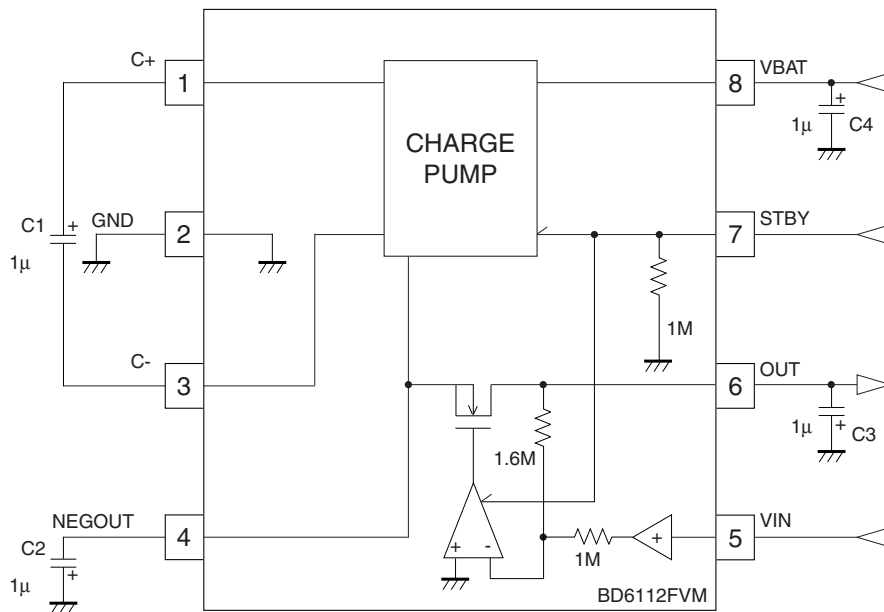
● Recommended Operating Conditions (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Power supply voltage	V _{BAT}	2.5	3.6	5.5	V

● Electrical characteristics (Unless otherwise noted; Ta=25°C, V_{BAT}=3.6V, STBY=3.6V)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions	
Circuit current	I _{Q1}	–	0.5	3	mA	No load, V _{IN} =1.25V	
Stand-by current	I _{Q2}	–	–	5	μA	No load, V _{IN} =0V, STBY=0V	
<Regulator block>							
Output voltage 1	V _O	–2.1	–2.0	–1.9	V	V _{IN} =1.25V, I _{OUT} =5mA	
Output voltage 2	V _{O2}	V _O x 0.95	V _O	V _O x 1.05	V	V _{IN} =0.5~1.8V, V _O =–1.6 x V _{IN} , I _{OUT} =5mA	
Output ripple voltage	V _{RR}	–	–70	–60	dBV	V _{IN} =1.25V, I _{OUT} =5mA	
Maximum output current	I _{OMAX}	10	–	–	mA	V _{IN} =1.25V, V _{OUT} ≤V _O +0.1V	
Load regulation	ΔV _{OL}	–	2	40	mV	V _{IN} =1.25V, I _o =0~5mA	
Line regulation	ΔV _{OI}	–	10	40	mV	V _{BAT} =3.0~6.0V, I _o =5mA	
V _{IN} pin inflow current	I _{IN}	–	0	2	μA	V _{IN} =1.25V	
<Charge-pump block>							
Oscillation frequency	f _{osc}	–	120	–	kHz		
Voltage conversion efficiency	V _{CE}	–	97	–	%	No load, NEGOUT monitor	
Stand-by pin pull down resistance	R _{STBY}	0.6	1.0	1.6	MΩ		
Stand-by pin control voltage	Operating	V _{IH}	2.0	–	–	V	
	Non-operating	V _{IL}	–0.3	–	0.3	V	

● Application Circuit



Notes

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