Points for Acceleration Control
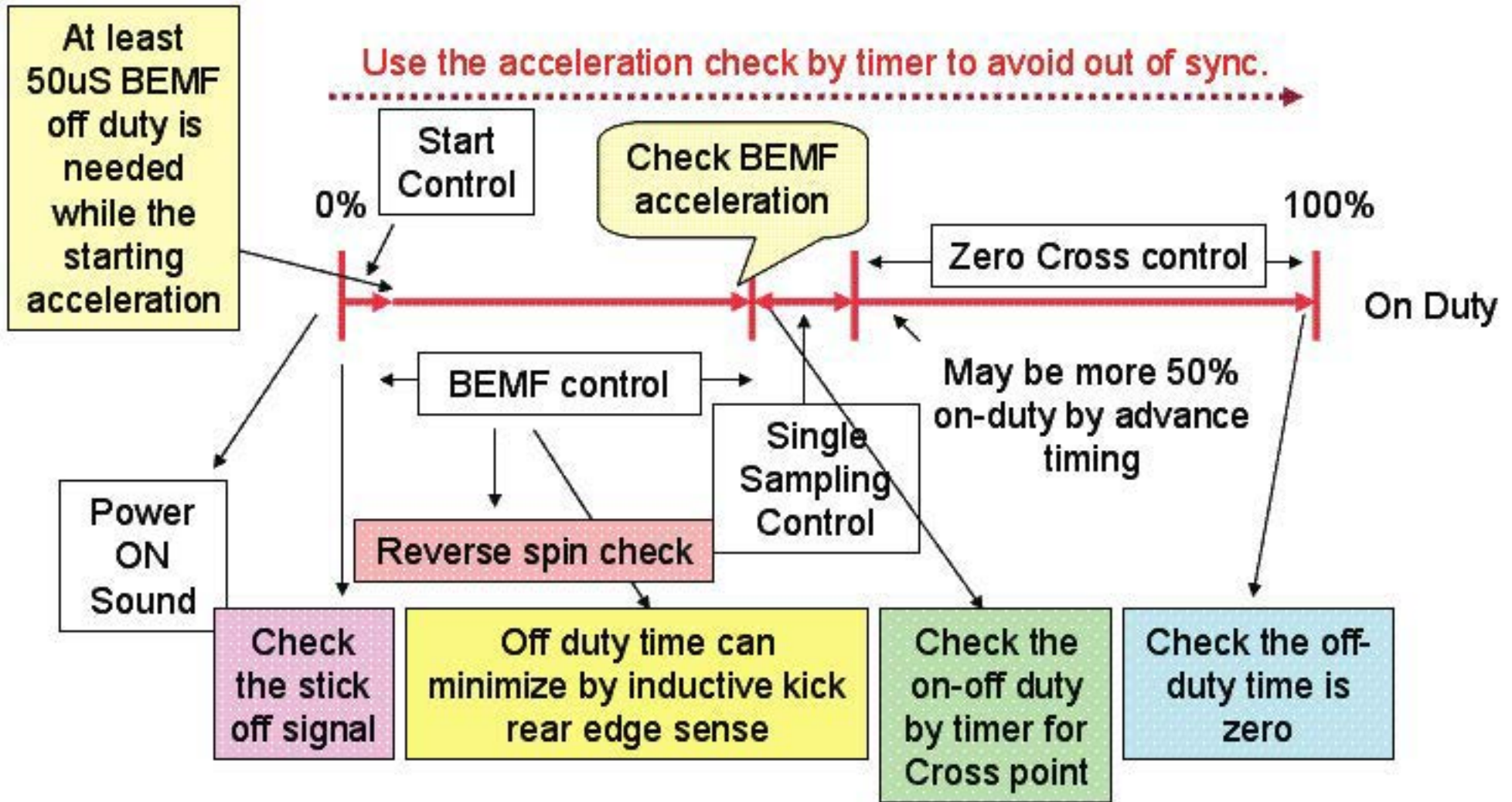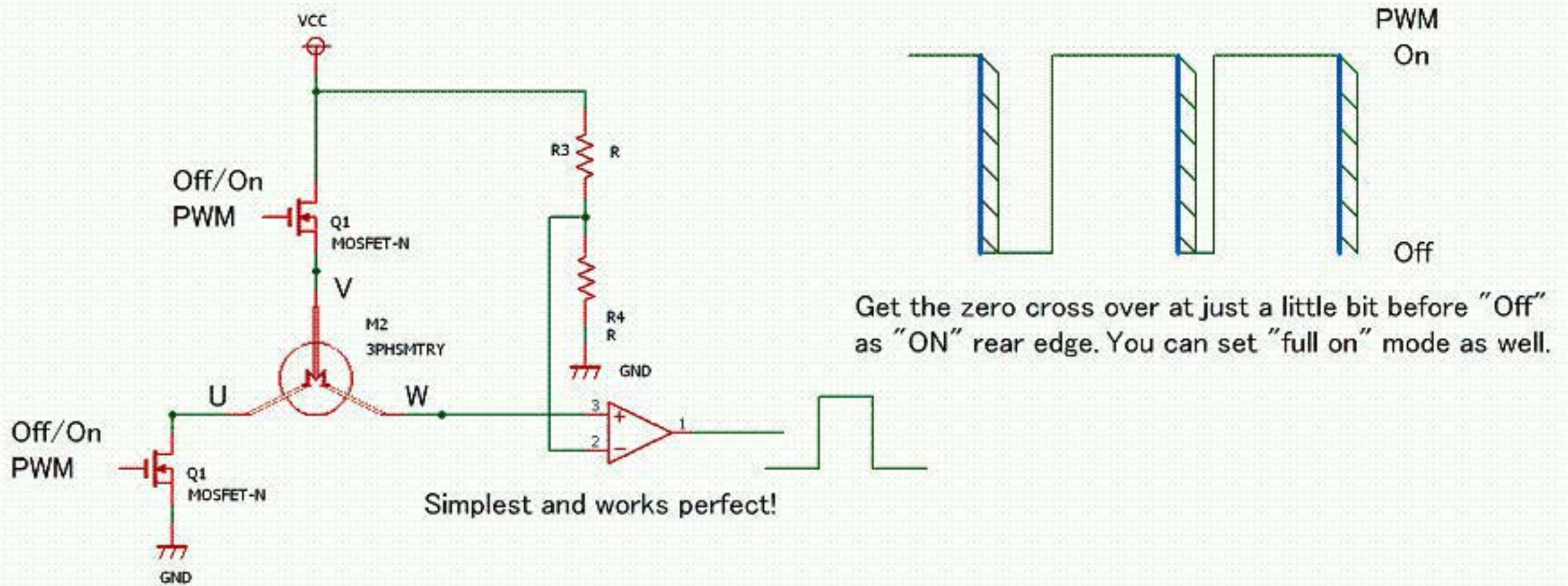
Fig : 1/2 VDD sensing
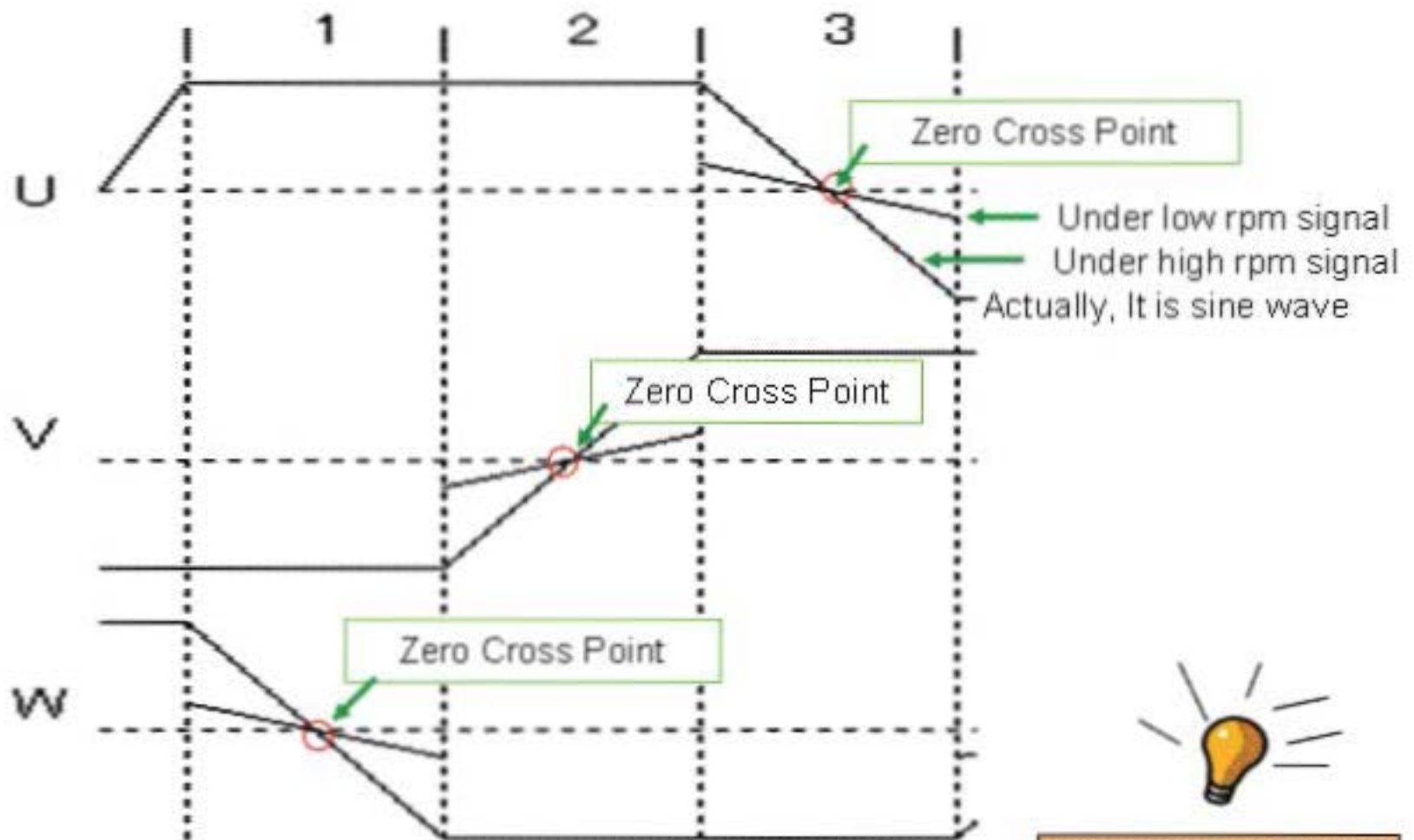
VCC

Off/On
PWM

Q1
MOSFET-N

V

M2
3PHSMTRY

R3   R

R4
R

GND

U   M   W

Off/On
PWM

Q1
MOSFET-N

GND

3
+
2
−
1

Simplest and works perfect!

PWM
On

Off

Get the zero cross over at just a little bit before "Off"
as "ON" rear edge. You can set "full on" mode as well.

Note:
*Use same MOSFET both H/L site.
*"Off" first, And "On". Get the zero cross detect result at the of "ON" fall egde for sampling.

Date	Rev.	Designed by	Title	Page
'07/01/27	0.2	Takao Shimizu	Zero Cross sensing while PWM switching	1/1

Zero Cross Control