

Analog Comparator Driver User Guide V1.00.01



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1. Functions

DrvACMP_Ctrl

Prototype

void DrvACMP_Ctrl(uint8_t com, uint8_t cmpCN, uint8_t cmpIE, uint8_t cmpEN);

Description

Set ACMP control register

Parameter

com: CMP Number CMP0 / CMP1

cmpCN: Comparator Negative 1:Enable / 0:Disable cmpIE: CMP Interrupt 1:Enable / 0:Disable cmpEN: Comparator Enable 1:Enable / 0:Disable 1:Enable / 0:Disable

Include

Driver/DrvACMP.h

Return Value

None

DrvACMP_GetCMPFlag

Prototype

uint8_t DrvACMP_GetCMPFlag(uint8_t com);

Description

Get compare flag.

Parameter

com: CMP Number CMP0 / CMP1

Include

Driver/DrvACMP.h

Return Value

0: Flag is not set

1: Flag is set

DrvACMP_ClearCMPFlag

Prototype

void DrvACMP_ClearCMPFlag(uint8_t com)

Description

Clear CMP flag



Parameter

com: CMP Number CMP0 / CMP1

Include

Driver/DrvACMP.h

Return Value

None

DrvACMP_ComparatorEn

Prototype

void DrvACMP_ComparatorEn(uint8_t com);

Description

Enable Comparator function.

Parameter

com: CMP Number CMP0 / CMP1

Include

Driver/DrvACMP.h

Return Value

None

DrvACMP_ComparatorDis

Prototype

void DrvACMP_ComparatorDis(uint8_t com);

Description

Disable Comparator function

Parameter

com: CMP Number CMP0 / CMP1

Include

Driver/DrvACMP.h

Return Value

None

DrvACMP_GetCMPOutput

Prototype

uint8_t DrvACMP_GetCMPOutput(uint8_t com);



Description

Get compare Output

Parameter

com: CMP Number CMP0 / CMP1

Include

Driver/DrvACMP.h

Return Value

CMP Output Value

DrvACMP_EnableInt

Prototype

void DrvACMP_EnableInt(uint8_t com);

Description

Enable ACMP interrupt and NVIC corresponding to ACMP

Parameter

com: CMP Number CMP0 / CMP1

Include

Driver/DrvACMP.h

Return Value

None

DrvACMP_DisableInt

Prototype

 $void\ DrvACMP_DisableInt(uint8_t\ com)\ ;$

Description

Disable ACMP interrupt and NVIC corresponding to ACMP.

Parameter

com: CMP Number CMP0 / CMP1

Include

Driver/DrvACMP.h

Return Value

None



DrvACMP_GetVersion

Prototype

int32_t DrvACMP_GetVersion(void);

Description

Get the version number of ACMP driver.

Include

Driver/DrvACMP.h

Return Value

Version number:

31:24	23:16	15:8	7:0
00000000	MAJOR_NUM	MINOR_NUM	BUILD_NUM



2. Revision History

Version	Date	Description
1.00.01	Mar. 2011	Preliminary Analog Comparator Driver User Guide of
		ISD9160