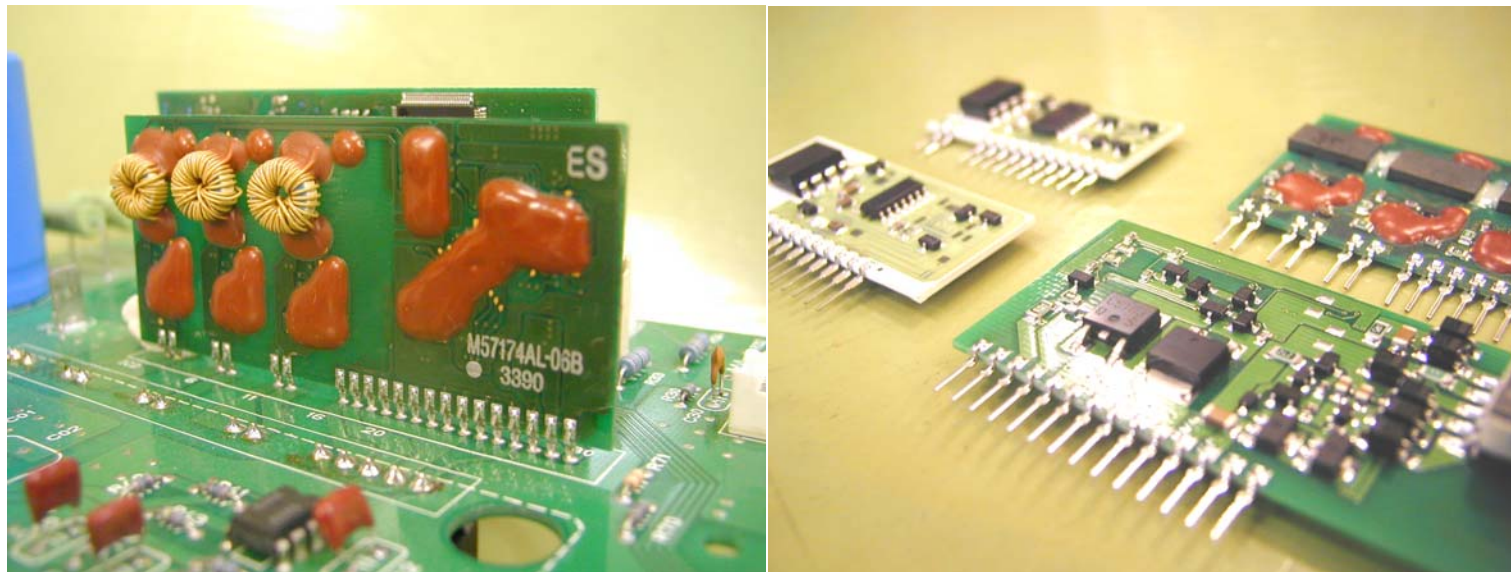


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# ISAHAYA IGBT Drivers



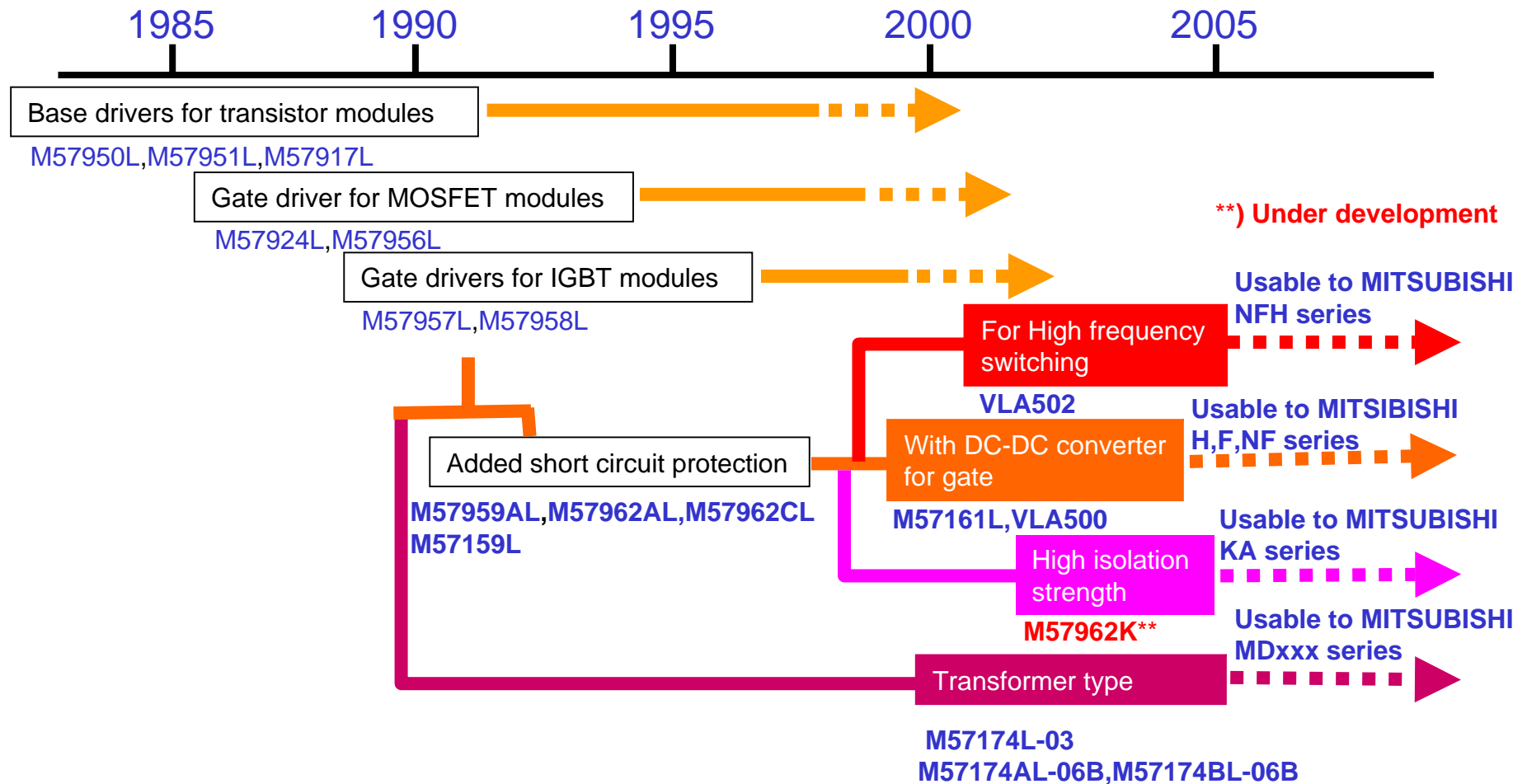
Jul.2004

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# Contents

1. IGBT gate driver road map
2. Selection map
3. New products
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# IGBT gate drivers road map



## Selection Map for Mitsubishi IGBT modules(1)

<For H series>

	15A	20A	30A	50A	75A	100A	150A	200A	300A	400A	600A	1000A
600V Class	M57159L							M57 959AL	M57962AL,CL			
1200V Class	M57159L					M57959AL		M57962AL,CL			VLA500	
1400V Class	M57159L					M57959AL		M57962AL,CL			VLA500	

<For F series>

	50A	75A	100A	150A	200A	300A	400A	600A
600V Class	M57160AL							M57161L
1200V Class	M57160AL					M57161L		



## Selection Map for Mitsubishi IGBT modules(2)

<For NF series>

	100A	150A	200A	300A	400A	600A	900A	1400A
600V Class	M57159L	M57959AL		M57962AL,CL				
1200V class	M57959AL		M57962AL,CL			VLA500		

<For NFH series>

	100A	150A	200A	300A	400A	600A
600V Class			VLA502			
1200V class	VLA502					

## Selection Map for Mitsubishi IGBT modules(2)

<For A series>

	100A	150A	200A	300A	400A	600A
1200V class	M57959AL			M57962AL,CL		

<For KA series>

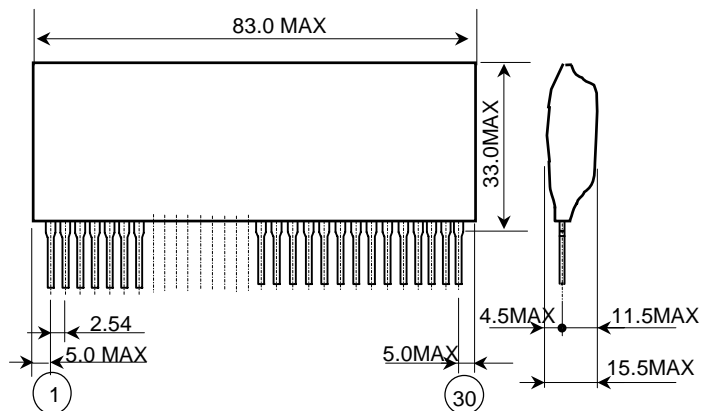
	50A	75A	100A	150A	200A	300A	400A
1700V Class	M57962K						

# Power Supply built-in type IGBT Driver "VLA500"

## VLA500-01

### OUTLINE DRAWING

Dimensions: mm



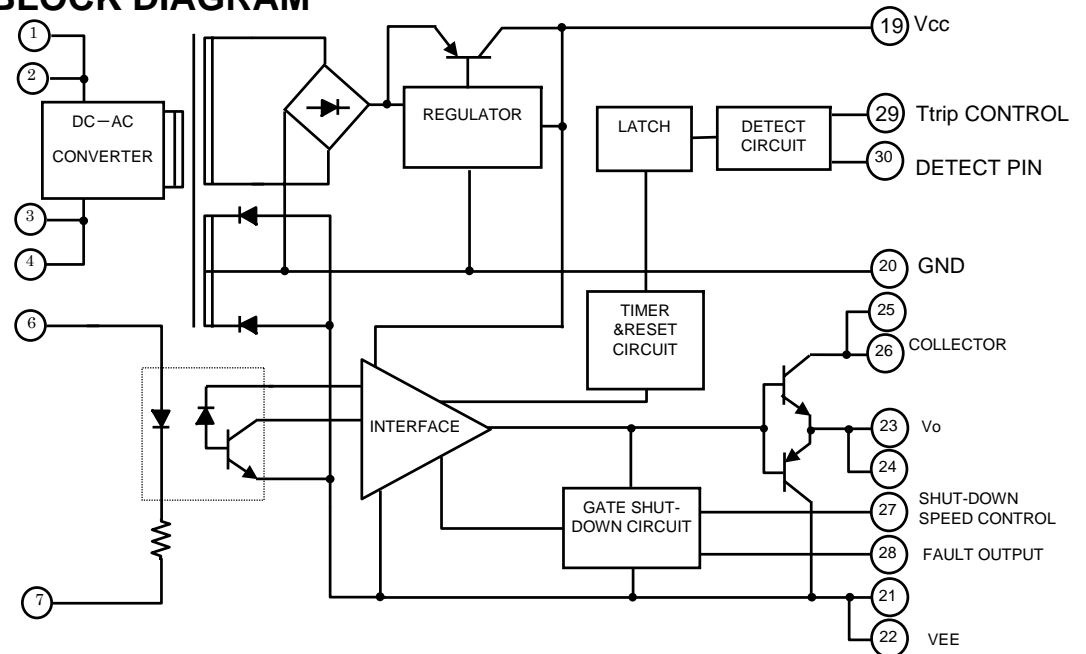
### FEATURES

- (1) Built in the isolated DC-DC converter for gate drive
- (2) Simple design of peripheral circuit
- (3) SIP outline allows more space on mounting area
- (4) Built in short circuit protection



NEW PRODUCT

### BLOCK DIAGRAM

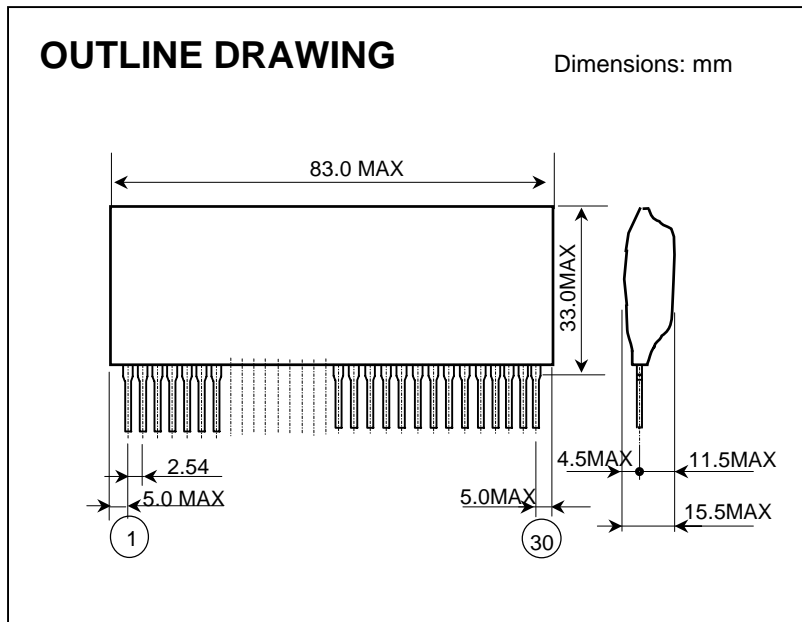


ISAHAYA ELECTRONICS CORPORATION

<http://www.idc-com.co.jp>

# High speed type IGBT Driver "VLA502"

## VLA502-01

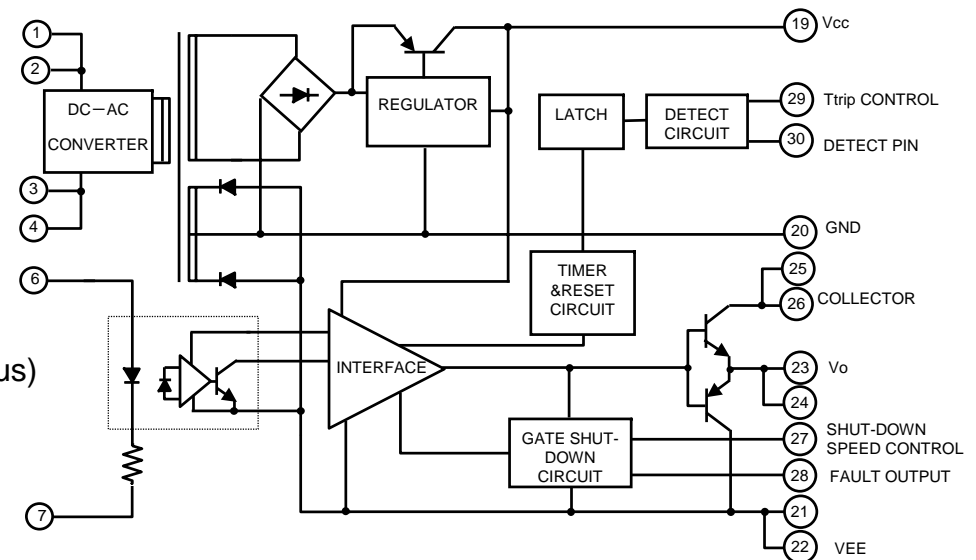


### FEATURES

- (1) High speed switching (Propagation delay time : Typ 0.4us)
- (2) Built in the isolated DC-DC converter for gate drive
- (3) SIP outline allows more space on mounting area
- (4) Isolation strength : 2500Vrms, 1min.

**NEW PRODUCT**

### BLOCK DIAGRAM



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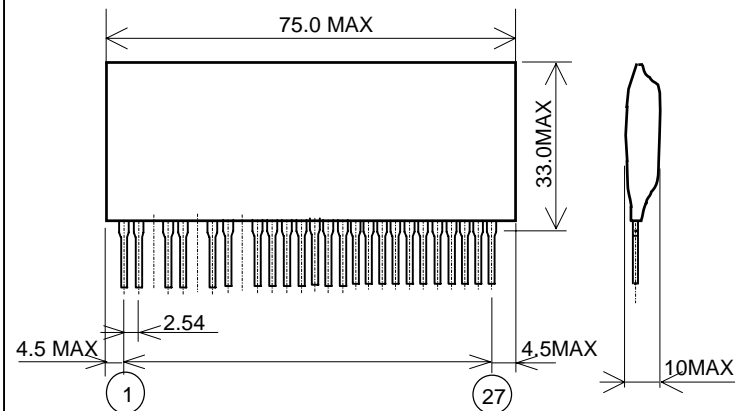
# All in one driver for IGBT modules

## M57174BL-06B

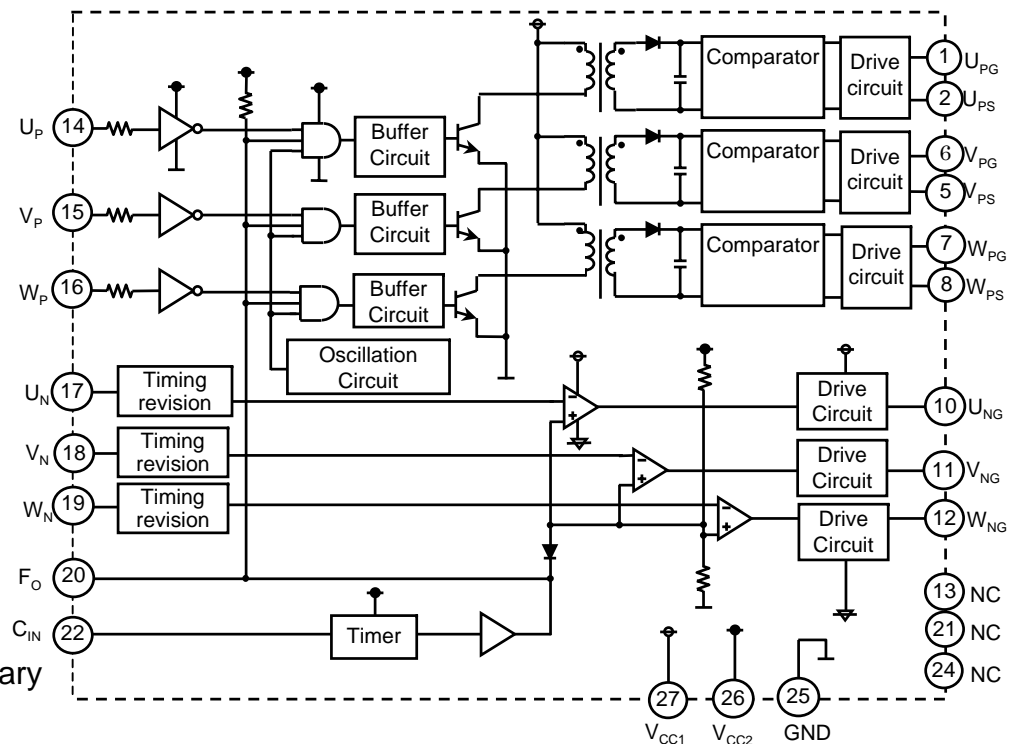
NEW PRODUCT

### OUTLINE DRAWING

Dimensions: mm



### BLOCK DIAGRAM



### FEATURES

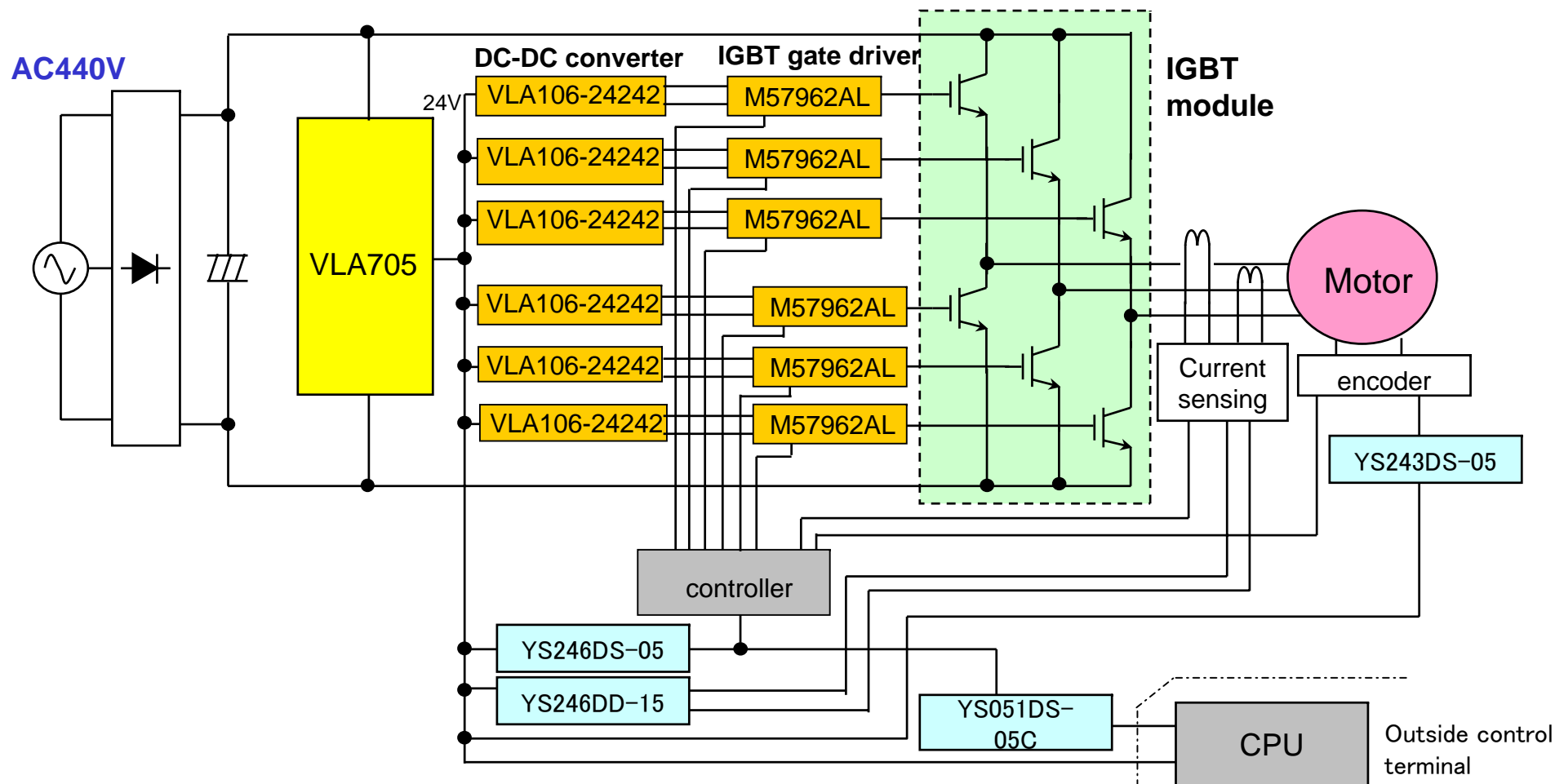
- (1) Not using the opt-coupler
- (2) The power supply for high side gate drive is unnecessary
- (3) SIP outline allows more space on mounting area
- (4) High side isolation strength : 600VDC, 1min.



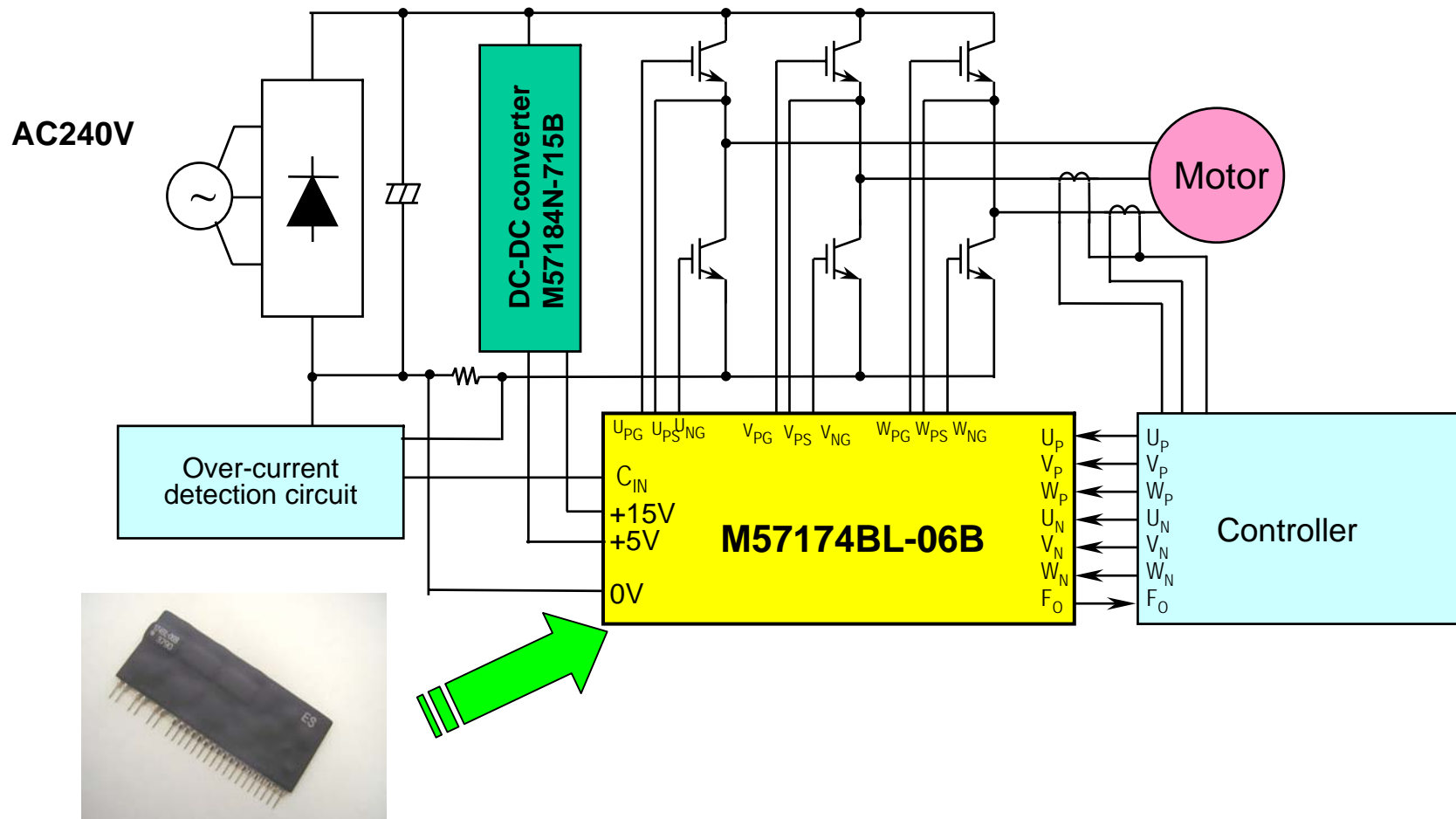
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<http://www.idc-com.co.jp>

## Peripherals of IGBT Module

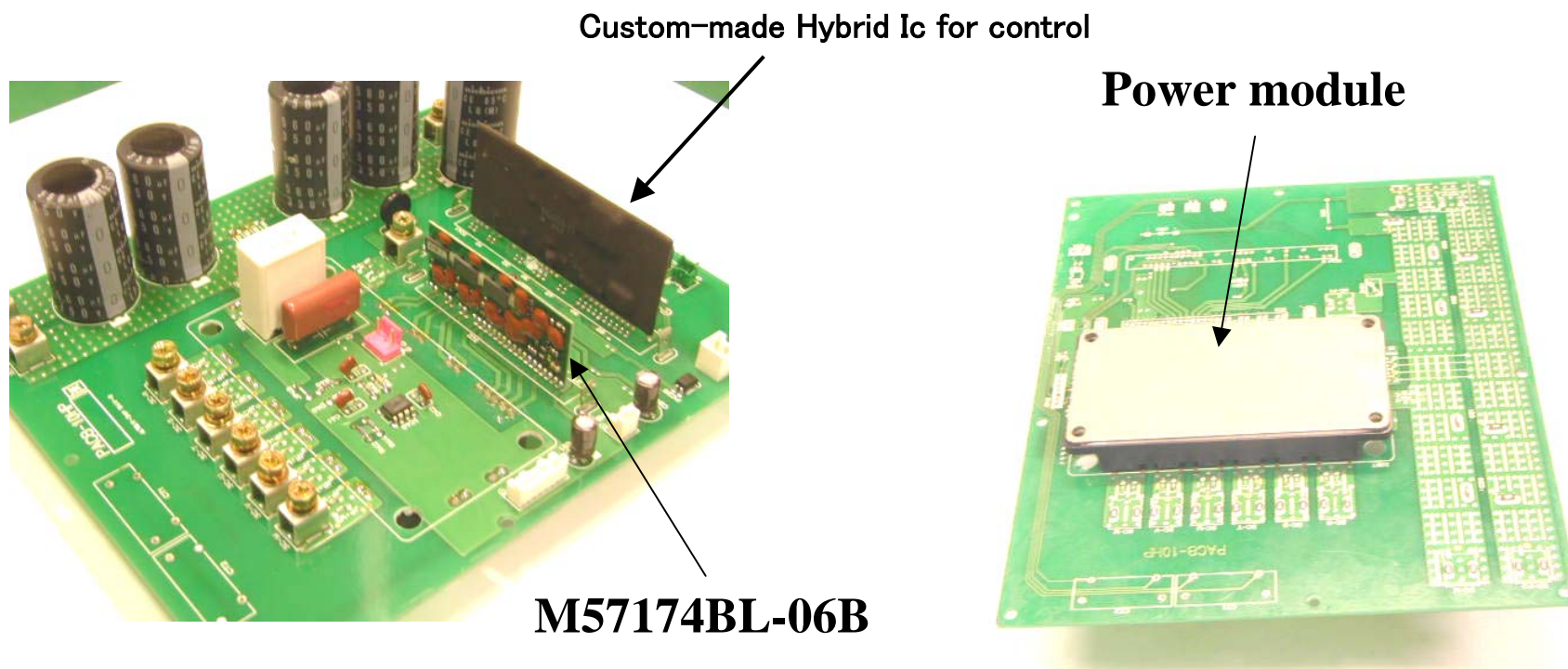


## Application of M57174BL-06B



## The example of M57174BL-06B mounting

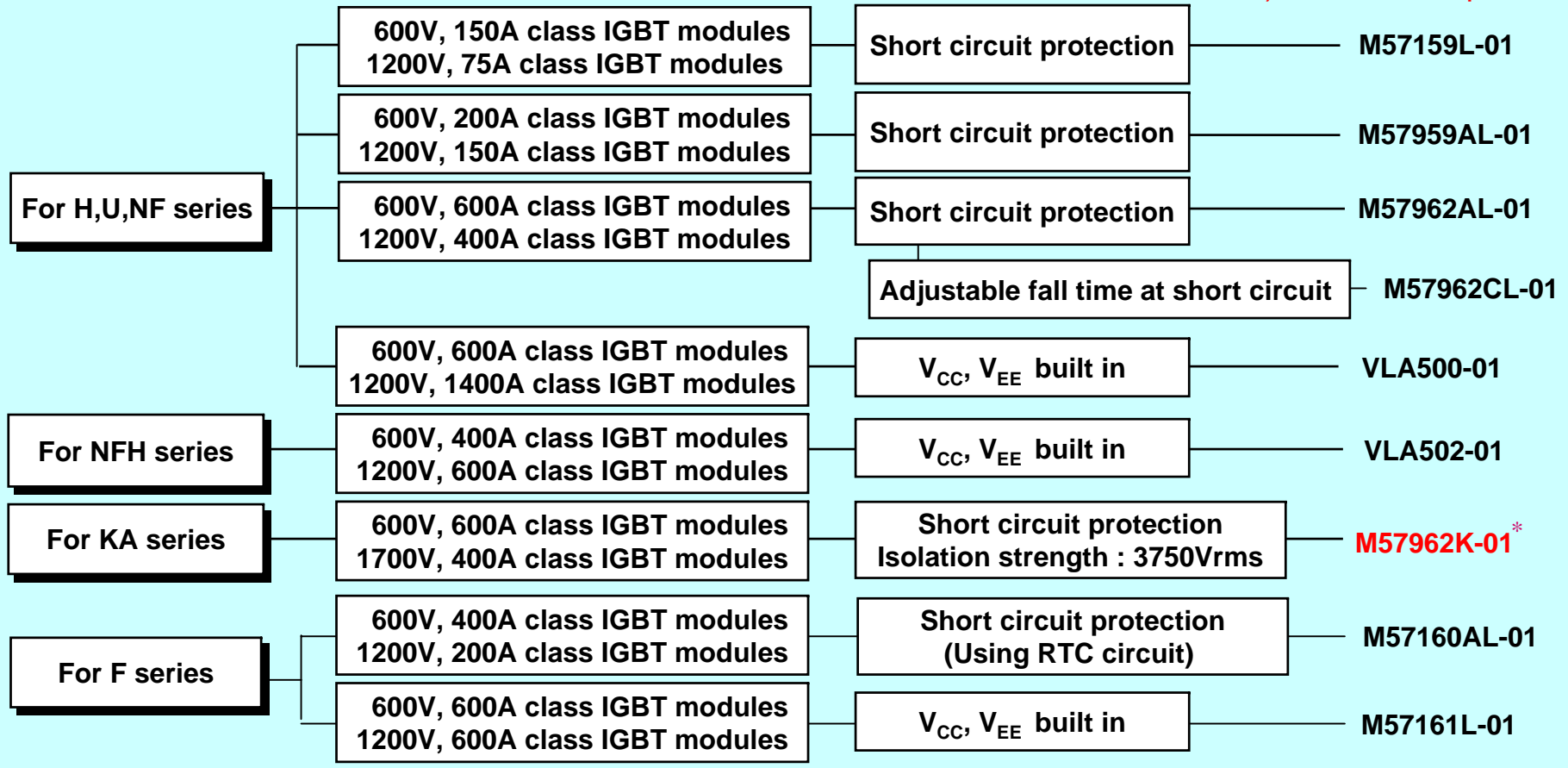
(Package air-conditioner)



# IGBT gate driver family(1)

## For IGBT gate drive

\*)Under development



## IGBT gate driver family(2)

### For IGBT gate drive

