

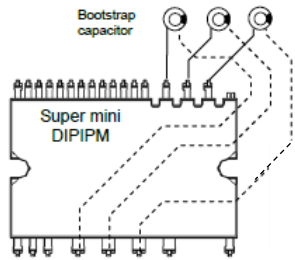
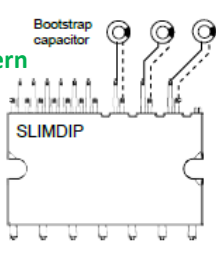
# SLIMDIP™ with Reverse Conducting IGBT

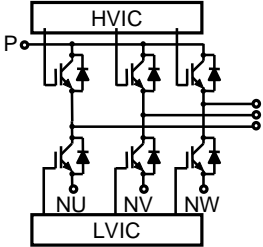
## - Slim your cost -

Mitsubishi Electric has developed a new SLIM package Intelligent Power Module (SLIMDIP™) for Consumer Goods Applications. Power chips, drive and protection circuits are all integrated into the module, which makes it a simple choice for AC100-200V class motor inverter control. SLIMDIP™ utilizes reverse conducting RC-IGBT technology, which applies MITSUBISHI's latest 7<sup>th</sup> generation IGBT chip design, enabling the use of a smaller package by reducing number of internal component when compared to MITSUBISHI's Super Mini DIPIPM series. By virtue of these features SLIMDIP™ is especially suitable for low cost inverterized home appliances and can contribute to system cost reduction.

### Product Advantages

- ❑ Smaller package (30% smaller than Super Mini DIPIPM)
- ❑ Integrated bootstrap diode eliminates the need for external diode, simplifying design & PCB layout
- ❑ Dedicated protection functions: short circuit, over temperature, under voltage lockout
- ❑ Robust package for high temperature operation,  $T_{C,max}$  of 115°C for switching operation
- ❑ UL recognized, isolation voltage  $V_{iso} = 2000V$  AC RMS

	Super Mini DIPIPM	SLIMDIP
Power chip	7 <sup>th</sup> Gen. IGBT	RC-IGBT
Tj max	150deg C	150deg C
Tc max	100deg C	115deg C
Package	Super Mini 24x38	SLIM 18.8x32.8
Viso	1500Vrms	2000Vrms
Terminal		

Circuit	Circuit Diagram	Package Size	Product Name	Application
6in1		18.8 mm X 32.8 mm	SLIMDIP-S (5A / 600V)	Air Conditioners Washing Machine Refrigerators Pumps Fans Small AC Drives
			SLIMDIP-L (15A / 600V)	



