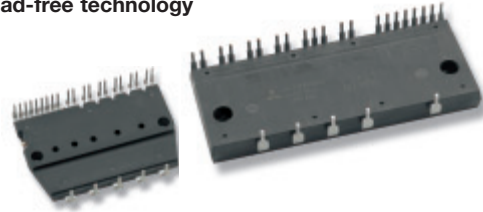


## 2.12 2<sup>nd</sup> Generation DIP and Mini-DIP-IPM



### Features:

- Ultra Compact Transfer Mold Package
- Including Drive and Protection ICs (low and high voltage drive ICs)
- Low and High Speed Types
- All Mitsubishi DIP and Mini-DIP-IPMs have lead-free terminals
- From January 2006 onwards, all DIP and Mini-DIP-IPMs will be supplied with completely lead-free technology



### Line-up DIP & Mini-DIP-IPM

| Type     | V <sub>CES</sub> (V)                 | Isolation Voltage (V <sub>rms</sub> ) | Motor Rating (kW) |  |                           |                           |            |            |            |
|----------|--------------------------------------|---------------------------------------|-------------------|--|---------------------------|---------------------------|------------|------------|------------|
|          |                                      |                                       | 0.1               | 0.2                                      | 0.4                       | 0.75                      | 1.5        | 2.0        |            |
| DIP      | Low speed<br>f <sub>PWM</sub> 5kHz   | 600                                   | 2500              |  |                           |                           | PS21244-EP | PS21245-EP | PS21246-EP |
|          | High speed<br>f <sub>PWM</sub> 15kHz |                                       |                   |  |                           |                           | PS21254-EP | PS21255-EP |            |
| Mini DIP | Low speed<br>f <sub>PWM</sub> 5kHz   | 500 / 600                             |                   | PS20341-GP<br>PS20341-NP*                | PS21342-GP<br>PS21342-NP* | PS21343-GP<br>PS21343-NP* |            |            |            |
|          | High speed<br>f <sub>PWM</sub> 15kHz |                                       |                   | PS20351-GP<br>PS20351-NP*<br>PS21351-NP* | PS21352-GP<br>PS21352-NP* | PS21353-GP<br>PS21353-NP* |            |            |            |

\*: reduced t<sub>dead</sub>

### Circuit Diagram

#### INTERNAL FUNCTIONS BLOCK DIAGRAM (TYPICAL APPLICATION EXAMPLE)

