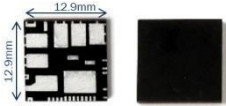


SPM7 in PQFN for up to 80W motors



- Mosfet module in small foot print 12.9x12.9mm PQFN package
- Available in 250V with $R_{ds_{on}}$ from 0.8Ω to 1.4Ω
- Available in 500V with $R_{ds_{on}}$ from 1.85Ω to 3.4Ω
- Achieve high power density thanks to larger PCB land pattern with higher heat dissipation capability

SPM5 in SMD and Through Hole packages, for up to 200W motors

DIP (No suffix)



- Mosfet module in SMD and Through Hole package to drive motors up to 200W
 - Can be mounted with heatsink for enhanced heat dissipation (but no screw hole on the package)
- Available in 250V, with $R_{ds_{on}}$ from 0.37Ω to 1.10Ω Available in 500V with $R_{ds_{on}}$ from 1.43Ω to 5.50Ω

Double DIP (suffix :-T)



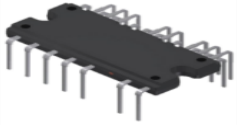
- FSB50x50A version is optimized for applications running at switching frequency below 10kHz, for which conduction losses are predominant
- FSB50x50B version is optimized for applications running at frequency above 10kHz, for which switching losses are predominant
- FSB50x50BL version is slow down compared to the B version to improve EMI

Surface Mount (suffix:-S)



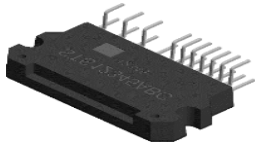
- Available in 600V using Super Junction Mosfets with $R_{ds_{on}}$ from 0.45Ω to 2.70Ω for ultra-low conduction losses
- Used in various white good appliances such as dishwashers and washing machine drain pumps, refrigerators as well as in industrial motor drive such as fan, pumps.

- **SPM8 for 300W range motors**



- IGBT module in fully molded package with screw hole for easy mounting on heat sink
- Available with 600V IGBTs, from 4A to 15A
- Used in white goods appliances such as compressors for refrigerators and fans

- **SIP-K for up to 1kW range motors**



- IGBT module in a Single In Line package for vertical mounting on the PCB
- It is based on an IMS substrate for high mounting density and good heat spreading, fully over molded for enhanced electrical isolation
- SIPK is pin compatible with SIP1A and SIP05F. It also has same mounting hole position with SIP05F
- SIPK available in 600V 10A

- **DIP-S6 and DIP-S for 1kW range motors**



- IGBT module in a compact 29.6x18.2mm package with exposed Al2O3 substrate for enhanced heat dissipation
- Available in 600V from 3A to 10A
- Used in white good appliance such as washing machines and in industrial motor drive such as fans, with power ranging from 700W to 1kW

- **SPM45 for 1kW to 3kW motors**



- IGBT module with ceramic substrate for good heat dissipation
- Available in 600V, wide portfolio from 5A to 30A for scalable power class within the same foot print
- Used in room air conditioning ranging from 1 horse power to 3 horse power

- SPM31, SPM3V and ASPM27 for 7kW motors



- IGBT modules with Al₂O₃ and AlN substrates for best heat dissipation

Available in 1,200V from 5A to 20A

Available in 650V from 15A to 50A

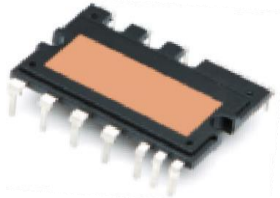
Used in large range of industrial motor drives such as variable frequency drives, servo, pumps, HVAC with powers up to 7kW

- AQG324 Automotive version available under ASPM27 package family, for e-compressor and other auxiliary motor drives for EV/HEV

SPM31 is pin to pin compatible with other suppliers in the market, offering dual source capability

SPM31 with FS4 IGBT offers a more cost effective solution for high performance applications. It offers higher efficiency than SPM3V for switching frequencies above 10kHz

SPM3V is running at higher volume and offers a more cost effective solution for applications demanding less performance.



- SPM49, SPM34 and ASPM34 for 10kW motors



- IGBT modules with Al₂O₃ and AlN substrate for best heat dissipation

Available in 1,200V from 10A to 50A

Available in 600V from 30A to 75A

- Used in large range of industrial motor drives such as variable frequency drives servo, pumps, HVAC with powers up to 10kW

- AQG324 Automotive version available under ASPM34 package family, for e-compressor and other auxiliary motor drives for EV/HEV

SPM49 is pin to pin compatible with other suppliers in the market, offering dual source capability

SPM49 with FS4 IGBT offers a more cost effective solution for high performance applications. It offers higher efficiency than SPM34 for switching frequencies above 10kHz

