

High Efficiency 600V/15A MOS IPM with PrestoMOS™

BM65364S-VA / BM65364S-VC



Integrated high performance PrestoMOS^{TM*} contributes to increased energy savings in AC systems

With the trend towards increasing awareness for greater energy savings and environmental protection comes a need to minimize power consumption in AC systems, which is typically the largest consumer of energy in the home. More specifically, it is important to improve loss during steady state operation at low loads as well as large power loads to the IPM during AC startup. ROHM's BM65364S integrates a gate driver, bootstrap diodes, and bootstrap current control function into a single module that simplifies inverter system design along with a low ON resistance Super Junction MOSFET (PrestoMOS™) in the inverter block to achieve class-leading power consumption and significant energy savings - particularly during steady state operation

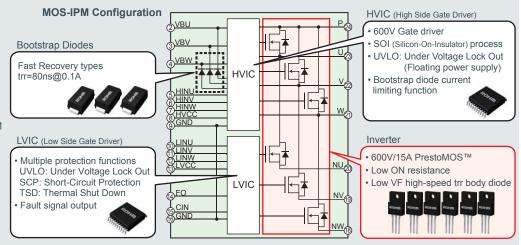
*PrestoMOS is a registered trademark of ROHM Co., Ltd. ('Presto' is an Italian musical term meaning 'extremely quick'.)

Modular design makes configuring inverter systems easy

Features

- PrestoMOS[™] delivers class-leading ON resistance for greater energy savings (improved APF*)
- · Simplifies the design of inverter systems
- Multiple protection functions provide worry-free use
- Pin-compatibility with ROHM's IGBT IPM allows for common board designs
- · High quality system ensured through integrated production at the chip level

*APF (Annual Performance Factor) Based on the energy consumption efficiency when operating a home AC system for an entire year

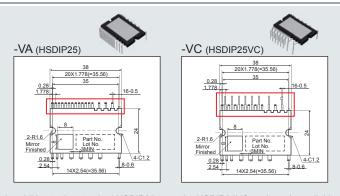


Gate drivers (LVIC, HVIC), bootstrap diodes, and a Super Junction MOSFET (PrestoMOS™) integrated into a single package

Reduces steady state loss

IGBT-IPM vs MOS-IPM Energy Loss Comparison Compared to IGBT IPMs, ROHM's new MOS IPM signficantly reduces power loss in AC systems during steady state operation (2-4A) Loss Comparison (600V/15A products) **IGBT-IPM** 8 Loss AC current during steady state operation I (Amps) IGBT-IPM : IGBT used in the inverter block MOS-IPM : MOSFET (PrestoMOS™) used in the inverter block

Offered in 2 package types



In addition to the standard HSDIP25 type, the HSDIP25VC package is available featuring staggered control pins that make dip soldering easier and provide better

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