

Featured Products



Combines class-leading* noise characteristics with low loss

600V IGBT IPMs

BM6437x series

*ROHM April 2021 study

• Achieves best-in-class noise characteristics with low loss

Optimizing the soft recovery characteristics of the internal FRD (Fast Recovery Diode) ensures low noise, while incorporating the latest IGBT element reduces power loss by 6% (at $f_c=15\text{kHz}$) over conventional products

• Dramatically improved temperature monitoring accuracy, making it possible to consider eliminating an external thermistor

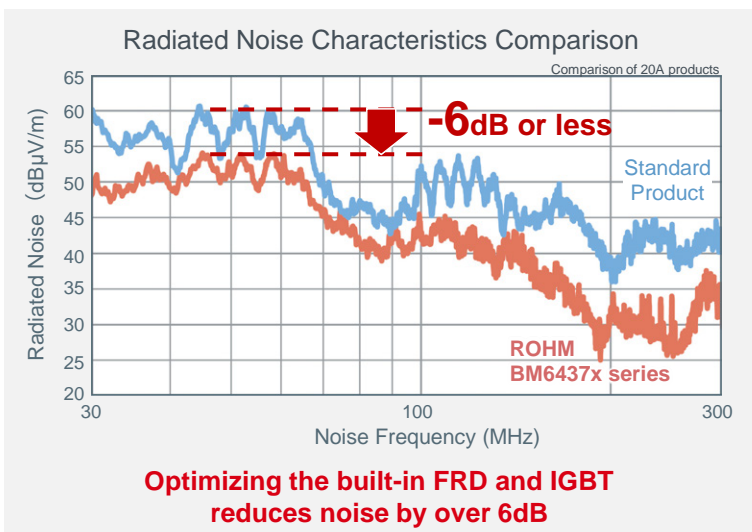
Fewer external components reduces design load

• New built- product identification function prevents mounting errors

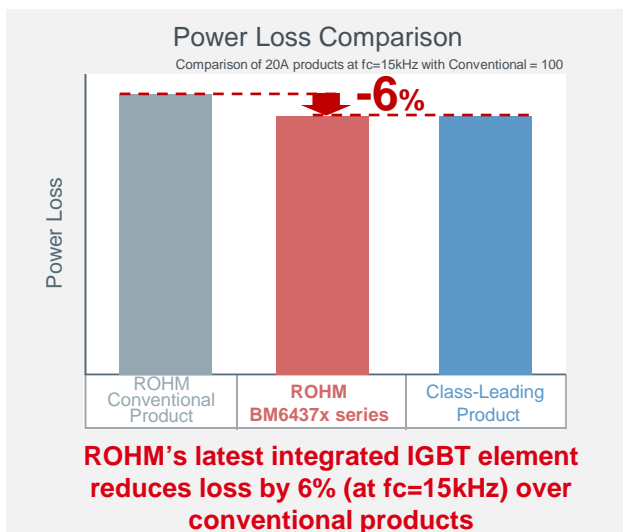
Enables product identification after mounting by measuring the impedance, preventing erroneous mounting of competitor products or parts with different current ratings.



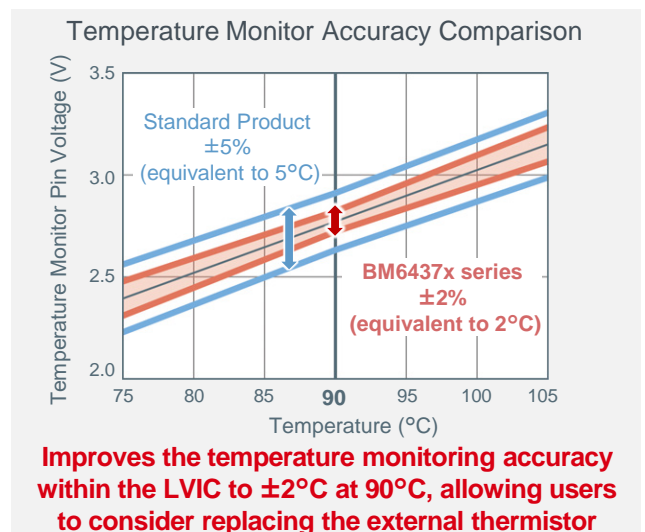
■ Reduces Noise



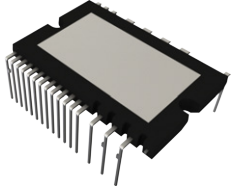
■ Decreases Power Loss



■ Improves Temperature Monitoring Accuracy



Lineup

Part No.	Rated Current (A)	Collector-Emitter Voltage $V_{CES}(V)$	V_{CESAT} (V)	PWM Input Frequency (kHz)	Isolation Voltage* (Vrms)	Temperature Monitoring Function	TSD Overheat Protection	Package (mm)
New BM64374S-VA Data Sheet	15	600	1.80	up to 20	1,500	Included	Included	 HSDIP25 (38.0×29.4×3.5)
New BM64375S-VA Data Sheet	20		1.70					
New BM64377S-VA Data Sheet	30		1.70					
New BM64378S-VA Data Sheet	35		1.50					

*Supports 2,500Vrms when using convex heat sink at AC60Hz for 1m

Applications

- Inverters for home appliances such as air conditioners, washing machines, and refrigerators
- Inverters for compact industrial equipment, including small-capacity motors for robots
- Other applications that utilize inverter control (i.e. compressors, motors)

Online Distributors



Target Product: BM6437x series



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The information contained in this document is current as of April 1st, 2021.