New Low noise type Fast trr Super Junction MOSFET now available

Low Noise PrestoMOS™
R60xxRNx series

- Fast trr + Lower noise makes Easier to use!
  Simultaneously improves recovery characteristics and noise

- Improves the trade-off between noise and switching loss in all frequency bands
  Facilitates design

- Ideal for compact motor applications including fan motors, pumps, and ventilation fans
  Effective for noise suppression in compact motor applications (up to 9A) that support high frequencies

### Low Noise Fast Recovery PrestoMOS™

- New Product “R60xxRNx series” Features
  ① Improves recovery characteristics (faster trr)
  ② Reduces noise (minimizes ringing)

### Improves the Trade-Off Between Noise and Loss

- Dramatically improves noise and switching loss

- Excellent characteristics in all frequency bands (especially from 10MHz to 100MHz)

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PrestoMOS™ is a trademark or registered trademark of ROHM Co., Ltd.

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*Comparison of 4A products

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The lower the gate resistance (Rg), the lower the loss and higher the noise strength
Low-Noise PrestoMOS™ Optimized for Compact Motor Applications

PrestoMOS™ (SJ-MOSFET)

‘Presto’ is an Italian musical term meaning ‘very fast’. PrestoMOS™ boasts the industry’s fastest reverse recovery time by speeding up the parasitic diodes in Super Junction MOSFETs.

● Applications equipped with Compact Motors

PrestoMOSTM

Fast trr

R60xxJNx series

Low Noise

R60xxRNx series

■ R60xxRNx series of Low Noise Fast trr PrestoMOS™

High-speed switching generates high frequencies/harmonics (noise)

Reducing parasitic diode loss (via fast trr) is essential for achieving energy savings, since return current flows through the parasitic diode of the MOSFET.

Circuit Example (3-Phase AC Motor)

The information contained in this document is current as of October 1st, 2022.