

Featured Products



Expanded lineup

New 600V Super Junction MOSFET series

R60xxVN series with built-in high-speed diode (PrestoMOS™) / R60xxYNx low ON resistance series

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

• New processes provide even higher performance

20% lower ON resistance per unit area over equivalent products

What's more, simultaneously achieves both low ON resistance and gate charge (Qg).

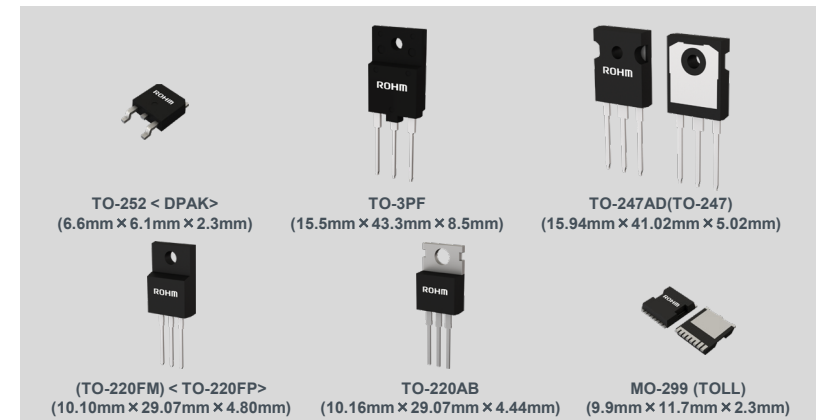
• Combines high-speed switching and recovery with low ON resistance

(PrestoMOS™ R60xxVNx series)

In addition to features provided by PrestoMOS™ such as high-speed switching and the industry's fastest* reverse recovery time, class-leading low ON resistance contributes to greater energy savings and miniaturization. For example, using in PFC and synchronous rectification circuits in power supplies can reduce wasteful power consumption. * ROHM March 2022 study

• High-speed switching + low ON resistance (R60xxYNx series)

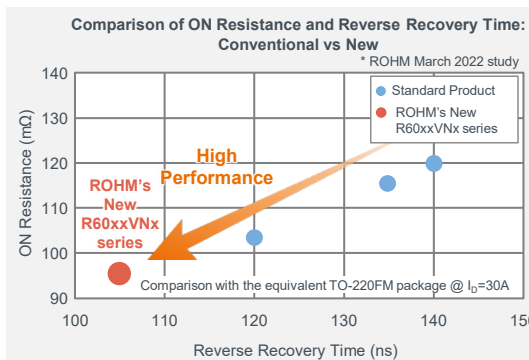
Achieves class-leading low ON resistance. Low Qg translates to lower switching loss, contributing to energy savings and miniaturization in switching power supply circuits.



Package indicates JEDEC code. () : ROHM Package, (>) : GENERAL Code.

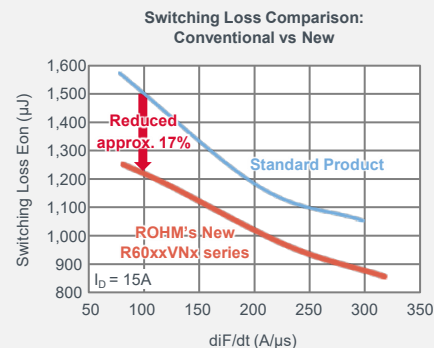
*MO-299 and TO-3PF available only for the R60xxYNx series

■ New PrestoMOS™ (R60xxVNx series) Performance

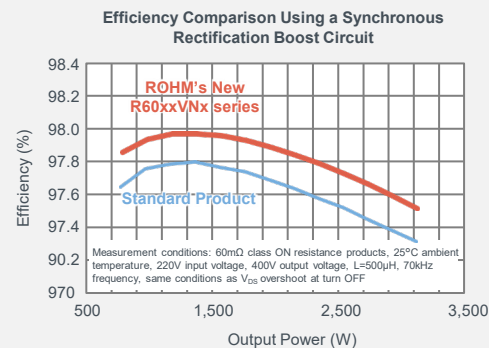


Achieves the industry's fastest reverse recovery time with low ON resistance

* ROHM March 2022 study

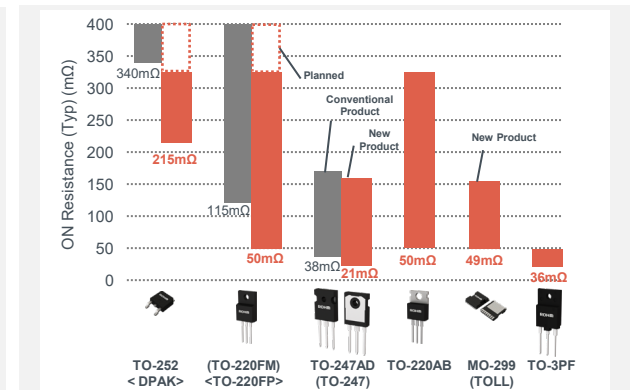


Reduces switching loss by 17% vs equivalent general-purpose products



Increased efficiency in totem pole circuits contributes to lower application power consumption

■ Expanded R60xxYNx series Lineup



Reduces the ON Resistance for each package while adding new packages

■ 600V Super Junction MOSFETs

High-speed Switching and Recovery + Low ON Resistance PrestoMOS™ R60xxVNx series

V _{DS} (V)	R _{DS(on)} Typ (mΩ) V _{GS} =15V	trr Typ (ns)	Package			
			TO-252 <DPAK>	(TO-220FM) <TO-220FP>	TO-220AB	TO-247AD (TO-247)
600	250	65	☆ R6013VND3	☆ R6013VNX		
	180	68		New R6018VNX		
	130	80		New R6024VNX	New R6024VNX3	
	95	92		New R6035VNX	New R6035VNX3	
	59	112		☆ R6055VNX	☆ R6055VNX3	New R6055VNZ4
	42	125				New R6077VNZ4
	22	167				☆ R60A4VNZ4

☆ Under Development

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High-speed Switching + Low ON Resistance R60xxYNx series

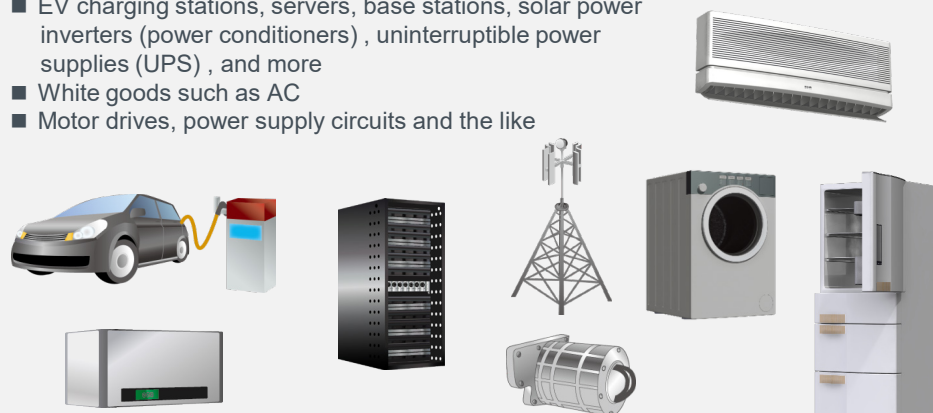
V _{RM} (V)	R _{DS(on)} Typ (mΩ) V _{GS} =12V	Package					
		TO-252 <DPAK>	(TO-220FM) <TO-220FP>	TO-220AB	TO-3PF	TO-247AD (TO-247)	MO-299 (TOLL)
600	324	☆ R6010YND3	☆ R6010YNX	☆ R6010YNX3			
	215	☆ R6014YND3	New R6014YNX	☆ R6014YNX3			
	154		New R6020YNX	☆ R6020YNX3		☆ R6020YNZ4	☆ R6020YNJ2
	137		☆ R6022YNX	☆ R6022YNX3		☆ R6022YNZ4	☆ R6022YNJ2
	112		☆ R6027YNX	☆ R6027YNX3		☆ R6027YNZ4	☆ R6027YNJ2
	80		☆ R6038YNX	☆ R6038YNX3		☆ R6038YNZ4	☆ R6038YNJ2
	68		☆ R6049YNX	☆ R6049YNX3		☆ R6049YNZ4	☆ R6049YNJ2
	50		☆ R6061YNX	☆ R6061YNX3		☆ R6061YNZ4	
	49						☆ R6063YNJ2
	36				☆ R6086YNZ	☆ R6086YNZ4	
	21					☆ R60A4YNZ4	

☆ Under Development

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■ Applications

- EV charging stations, servers, base stations, solar power inverters (power conditioners), uninterruptible power supplies (UPS), and more
- White goods such as AC
- Motor drives, power supply circuits and the like



■ Related Products (ROHM's Website)

• PrestoMOS™
R60xxVNx series

• SJ MOSFET
R60xxYNx series

Quick
Link



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chip 1 stop®
An Arrow Company

ROHM
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