

# Featured Products



High heat resistance • 200V withstand voltage

## Automotive Ultra-Low $I_R$ Power Schottky Barrier Diodes (AEC-Q101 Qualified)

RBxx8BM200/RBxx8NS200 (200V Withstand type)

### Achieves 100x lower reverse leakage current ( $I_R$ ) vs standard products

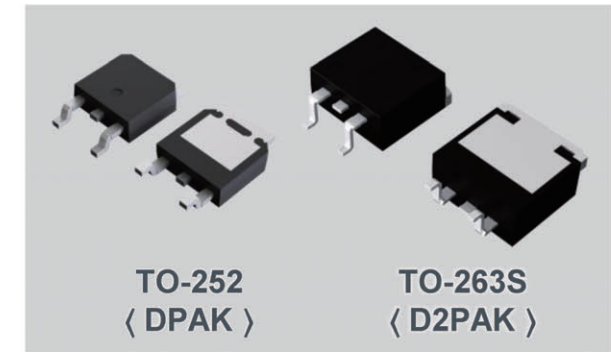
Prevents thermal runaway even in high temperature environments  
(i.e. automotive/industrial applications)

### 200V withstand voltage; low $V_F$ and high-speed $t_{rr}$ characteristics ensure low power consumption

Provides 11% lower  $V_F$  vs standard fast recovery diodes

### Reduced heat generation contributes to greater miniaturization

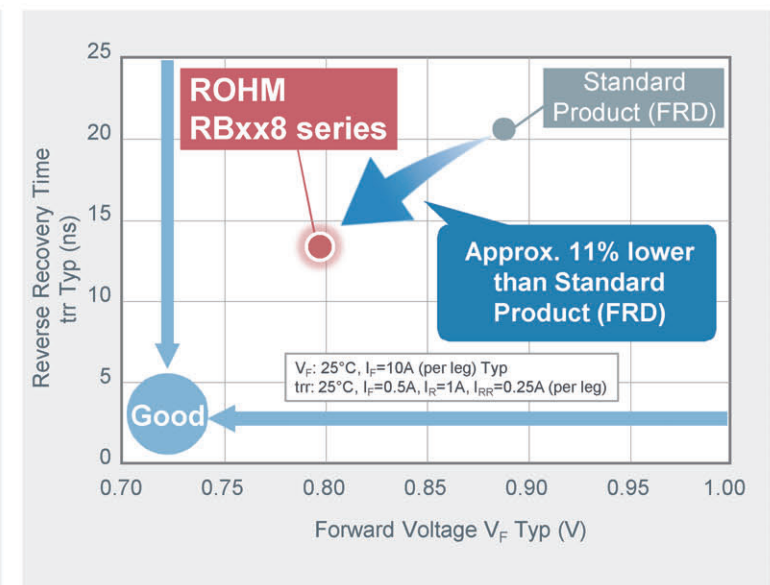
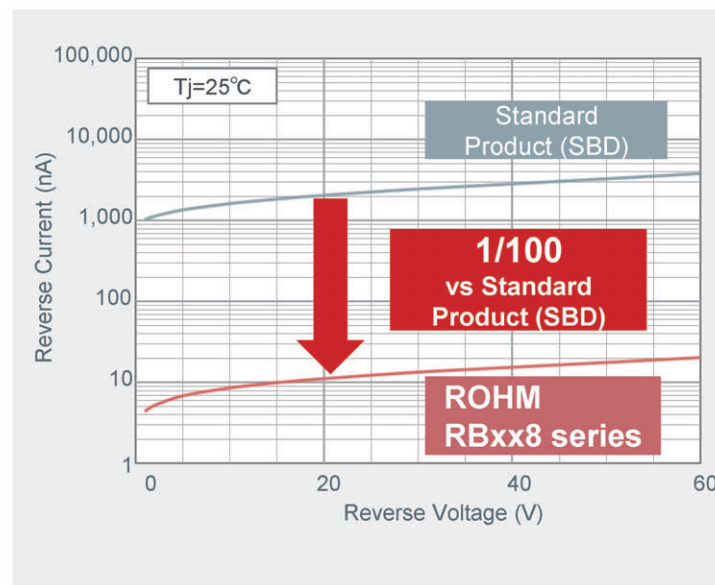
Power package together with low  $V_F$  significantly decreases mounting area



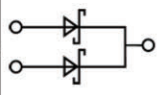
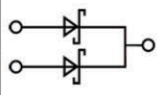
Note: Indicates the JEDEC package notation. ( < > ) Denotes the Industry Standard package code.

- Diode Characteristics Comparison
- Reverse Leakage Current Comparison
- Forward Voltage vs Reverse Recovery Time

	Rectifier Di	FRD	Standard SBD	<b>New</b> RBxx8
$V_F$	Better	Better	Excellent	Excellent
$I_R$	Excellent	Excellent	Better	Excellent
$t_{rr}$	Better	Good	Excellent	Excellent
Greater Miniaturization	Better	Good	Good	Excellent

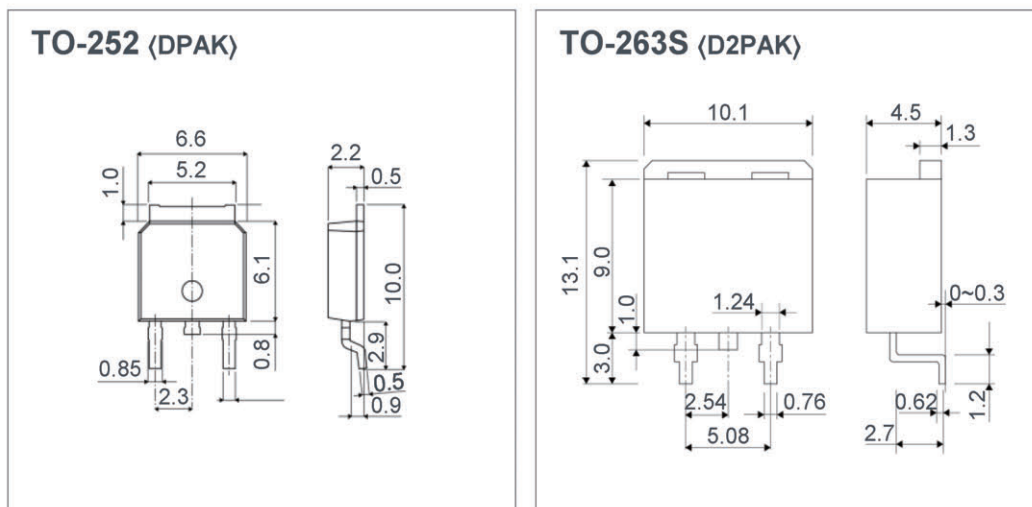


## ■ Ultra-Low I<sub>R</sub> Power Schottky Barrier Diodes (200V Withstand type)

Part No.	Absolute Max Rating (T <sub>c</sub> =25°C)				Electrical Characteristics (T <sub>J</sub> =25°C)				Package	Equivalent Circuit Diagram	Automotive Grade AEC-Q101 <sup>*3</sup>
	V <sub>RM</sub> (V)	V <sub>R</sub> (V)	I <sub>O</sub> <sup>*1</sup> (A)	I <sub>FSM</sub> (A) <sup>*2</sup> 60Hz.1cyc	V <sub>F</sub> (V) Max	I <sub>F</sub> (A)	I <sub>R</sub> (mA) Max	V <sub>R</sub> (V)			
<b>New</b> RB088BM 200	200	200	10	100	0.88	5	0.007	200	TO-252 ( DPAK )		YES
<b>New</b> RB218BM 200	200	200	20	100	0.88	10	0.01	200			YES
<b>New</b> RB088NS200	200	200	10	100	0.88	5	0.007	200	TO-263S to ( D2PAK )		YES
<b>New</b> RB218NS200	200	200	20	100	0.88	10	0.01	200			YES

\*1 Average rectification per element is I<sub>O</sub> (with one element), 1/2 I<sub>O</sub> (with 2 elements). \*2 Standard per element. \*3 AEC-Q101 qualified products are limited to automotive part numbers.  
Note: Indicates the JEDEC package notation. ( ) Denotes the Industry Standard package code.

## ■ External Dimensions (Unit: mm)



Note: Indicates the JEDEC package notation. ( ) Denotes the Industry Standard package code.

## ■ Applications

- Automotive powertrain
  - xEVs
  - Industrial inverters
  - Various power supplies
- and more...



**ROHM Co., Ltd.**

21 Sain Mizosaki-cho, Ukyo-ku,  
Kyoto 615-8585 Japan

[www.rohm.com](http://www.rohm.com)

The content specified herein is for the purpose of introducing ROHM's products (hereinafter "Products"). If you wish to use any such Product, please be sure to refer to the specifications, which can be obtained from ROHM upon request. Great care was taken in ensuring the accuracy of the information specified in this document. However, should you incur any damage arising from any inaccuracy or misprint of such information, ROHM shall bear no responsibility for such damage. The technical information specified herein is intended only to show the typical functions of and examples of application circuits for the Products. ROHM does not grant you, explicitly or implicitly, any license to use or exercise intellectual property or other rights held by ROHM and other parties. ROHM shall bear no responsibility whatsoever for any dispute arising from the use of such technical information. If you intend to export or ship overseas any Product or technology specified herein that may be controlled under the Foreign Exchange and the Foreign Trade Law, you will be required to obtain a license or permit under the Law.

The content specified in this document is correct as of January 1st, 2020.