Featured Products

DFN1006 wettable flank package improves mounting visibility

Class-Leading* Compact Automotive-Grade Schottky Barrier Diodes

*ROHM July 2023 study

RBxxxASA-x0FH series (For General Rectification)

RB886ASAFH (For Detection)



MARIN

lectronic

8

ndustria





The RBxxxASA-x0FH (for general rectification) and RB886ASAFH (for detection) series are the industry's smallest class of Schottky barrier diodes mainly designed for automotive applications. These new ultra-compact products improve heat dissipation over conventional products, making them ideal for automotive ECUs and ADAS-related devices where higher board densities and high mounting visibility are being pursued.

Features

• Proprietary Wettable Flank technology guarantees a side electrode height of 125µm

Enables reliable confirmation of solder mounting during Automated Optical Inspection (AOI) of automotive-related equipment.

ROHM's ultra-compact high heat dissipation Schottky barrier diodes support high-density mounting

Optimized for ADAS and vehicle ECUs requiring higher board densities.

*ROHM July 2023 study







ROHM Wettable Flank Technology enables soldering to the sides of the electrodes



Mounting Visibility Comparison



Guaranteeing the industry's highest side electrode height* of 125µm in a 1.0mm×0.6mm size improves visibility of the side electrodes during AOI after component mounting *ROHM July 2023 study





Package notation in parenthesis () denotes the ROHM package type.

Adopting a bottom electrode structure that provides both greater compactness and high heat dissipation makes it ideal for ADAS and vehicle ECUs requiring higher board densities

Automotive-Grade Schottky Barrier Diodes (Wettable Flank DFN1006-2W Package)



For General Rectification

Click on the icon to access the product page on ROHM's website.

Click on the icon to access the product datasheet on ROHM's website.

	Absolute	e Maximu	m Ratings	s (T _a =25°C)	Electrica	al Charact	teristics (T _j =	=25°C)	Package	Equivalent Circuit Diagram	Automotive
Part No.	V _{RM} [V]	V _R [V]	l _o [mA]	I _{FSM} [A] 60Hz.1 ~	V _F [V] (Max)	l _F [mA]	l _R [μA] (Max)	V _R [V]			Grade AEC-Q101
<i>New</i> RB551ASA-30FH 🌐 딁	30	20	500	1	0.47	500	100	20	(DFN1006-2W) SOD-882	o <u> </u>	YES
<i>New</i> RB751ASA-40FH 🌐 딁	40	30	30	0.5	0.37	1	0.5	30			YES
<i>New</i> RB520ASA-30FH 🌐 🗐	30	30	200	1	0.58	200	1	10			YES
<i>New</i> RB521ASA-30FH 🌐 🗐	30	30	200	1	0.47	200	30	10			YES
<i>New</i> RB550ASA-30FH 🌐 딁	30	30	500	1	0.59	500	35	30			YES
<i>New</i> RB520ASA-40FH 🌐 딁	40	40	200	1	0.55	100	10	40			YES

For Detection

Part No.	Absolut	te Maxin	num Rat	ings (T _a =25°C)	Electrical Characteristics (T _a =25°C)							Automotive	
	V _R [V]	l _F [mA]	T _j [°C]	T _{stg} [°C]	V _F [V] (Max)	l _F [mA]	C _t [pF] (Max)	V _R [V]	f [MHz]	Package	Equivalent Circuit Diagram	Grade AEC-Q101	
New RB886ASAFH	@ 🗐	5	10	150	-50 to +150	0.35	1.0	0.8	1.0	1.0	(DFN1006-2W) SOD-882	∘⊸∮⊸∘	YES

Application Examples

- Autonomous driving control ECUs
 Engine control ECUs
 ADAS
 - s · Car infotainment
 - Drive recorders
 ...and more

Ideal for applications requiring high mounting visibility in a compact size



Package notation in parenthesis () denotes the ROHM package type.

- The information contained in this document is intended to introduce ROHM Group (hereafter referred to as ROHM) products. When using ROHM products, please verify the latest specifications or datasheets before use.
- ROHM does not warrant that the information contained herein is error-free. ROHM shall not be in any way responsible or liable for any damages, expenses, or losses incurred by you or third parties resulting from errors contained in this document.
- The information and data described in this document, including typical application circuits, are examples only and are not intended to guarantee to be free from infringement of third parties intellectual property or other rights. ROHM does not grant any license, express or implied, to implement, use, or exploit any intellectual property or other rights owned or controlled by ROHM or any third parties with respect to the information and data contained herein.
- When exporting ROHM products or technologies described in this document to other countries, you must abide by the procedures and provisions stipulated in all applicable export laws and regulations, such as the Foreign Exchange and Foreign Trade Act and the US Export Administration Regulations, and follow the necessary procedures in accordance with these provisions.
- No part of this document may be reprinted or reproduced in any form by any means without the prior written consent of ROHM.
- The information contained in this document is current as of July 2023 and is subject to change without notice.



ROHM Co., Ltd. 21 Saiin Mizosaki-cho, Ukyo-ku, Kyoto 615-8585 Japan

www.rohm.com