

Featured Products



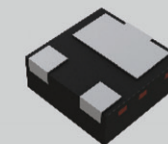
125μm side electrode height guaranteed in the DFN1010 package

Class-Leading*¹ Ultra-Compact MOSFETs for Automotive Applications

RV8C010UNHZG/RV8L002SNHZG/BSS84XHZG

*¹ ROHM October 2020 study

- Proprietary Wettable Flank technology guarantees a side electrode height of 125μm
- Ultra-compact high heat dissipation MOSFETs support high density mounting



DFN1010-3W
(1.0mm × 1.0mm × 0.4mm)

125μm Side Electrode Height Ensured Utilizing Proprietary Wettable Flank Technology

Wettable Flank Technology

	Conventional Technology	Wettable Flank Technology
Terminal Surface		
Mounting Cross Section		

- Guarantees the industry's highest*² side electrode height of 125μm in a 1.0mm × 1.0mm package
- Enables reliable solder fillet formation even with a bottom electrode package

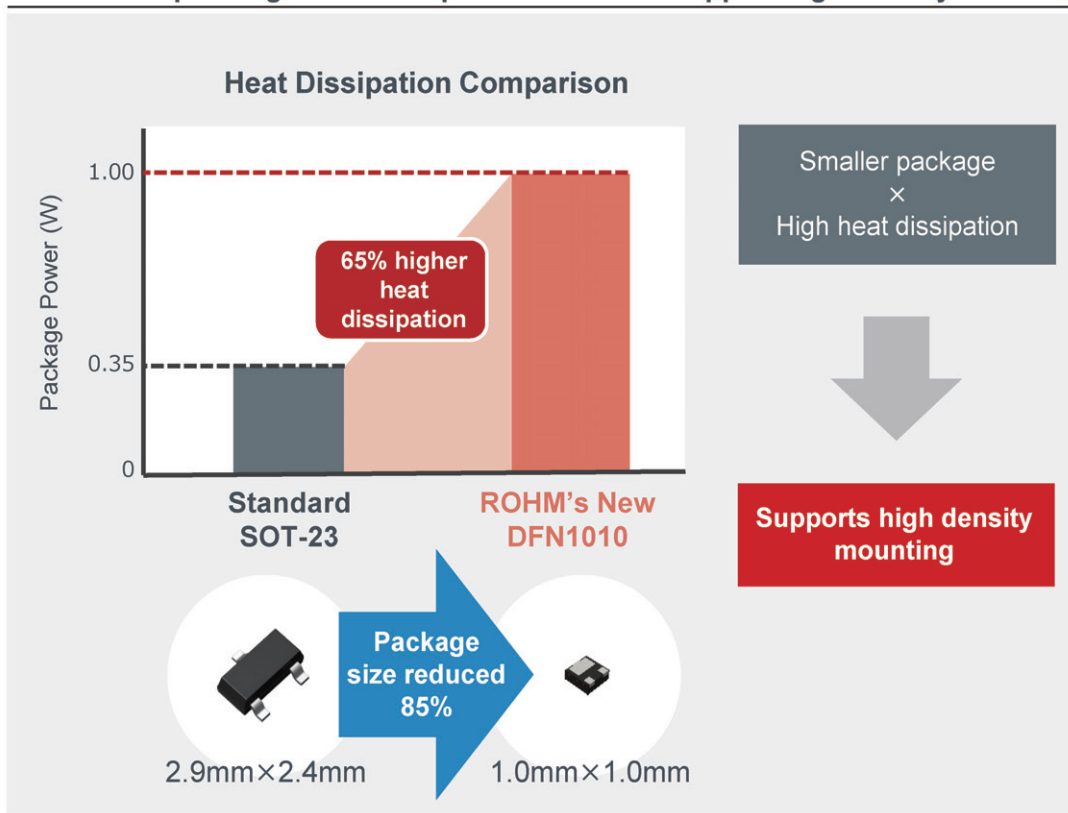
Mounting Visibility Comparison

Wettable Flank Technology	No	Yes
Solder Height When Mounted (Images of package sides)		
AOI Inspection Results (Images of solder condition)		

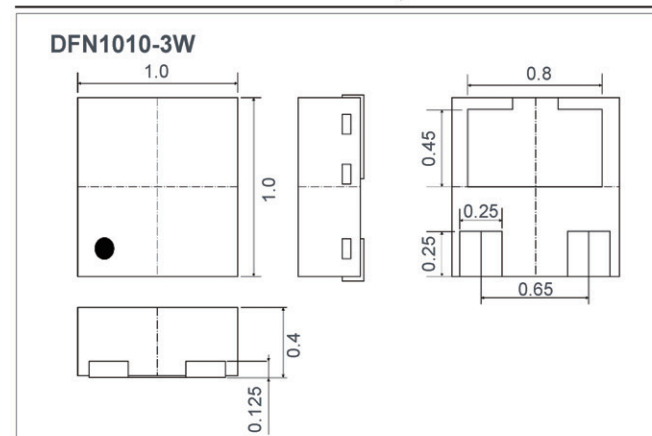
- Side electrode plating improves solder wettability
- 125μm side electrode height enables stable solder fillet formation, allowing the solder condition to be verified by AOI after mounting

*² ROHM October 2020 study

■ Ultra-Compact High Heat Dissipation MOSFETs Support High Density Mounting



■ External Dimensions (Unit: mm)



■ Applications

- Autonomous driving control ECUs
- Engine control ECUs
- ADAS
- Car infotainment
- Drive recorders

and more...

■ Lineup

Automotive-Grade MOSFETs (Wettable Flank DFN1010 Package)

Part No.	Electrode (ch)	Drain-Source Voltage V_{DS} (V)	Drain Current I_D (A)	Drive Voltage (V)	Drain-Source ON Resistance $R_{DS(on)}$ (mΩ)													
					$V_{GS}=10V$		$V_{GS}=4.5V$		$V_{GS}=4.0V$		$V_{GS}=2.5V$		$V_{GS}=1.8V$		$V_{GS}=1.5V$		$V_{GS}=1.2V$	
					Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max
New RV8C010UNHZG	N	20	1.0	1.2	-	-	340	470	-	-	400	560	470	650	540	810	700	1,050
New RV8L002SNHZG	N	60	0.25	2.5	1,700	2,400	2,100	3,000	2,300	3,200	3,000	12,000	-	-	-	-	-	-
New BSS84XHZG	P	-60	-4.5	-4.5	2,800	5,300	3,500	6,400	-	-	-	-	-	-	-	-	-	-



ROHM Co., Ltd.

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

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 1st October, 2020.