



# Optimized for Smartphones and Wearable Devices

# The World's Smallest\* Transistors

## VML0604

\*September 2014 ROHM survey

## Features

- Maintains the basic characteristics of small-signal transistors in the smallest form factor on the market
- Adopting new element processes results in the industry's lowest ON resistance
- Broad voltage lineup

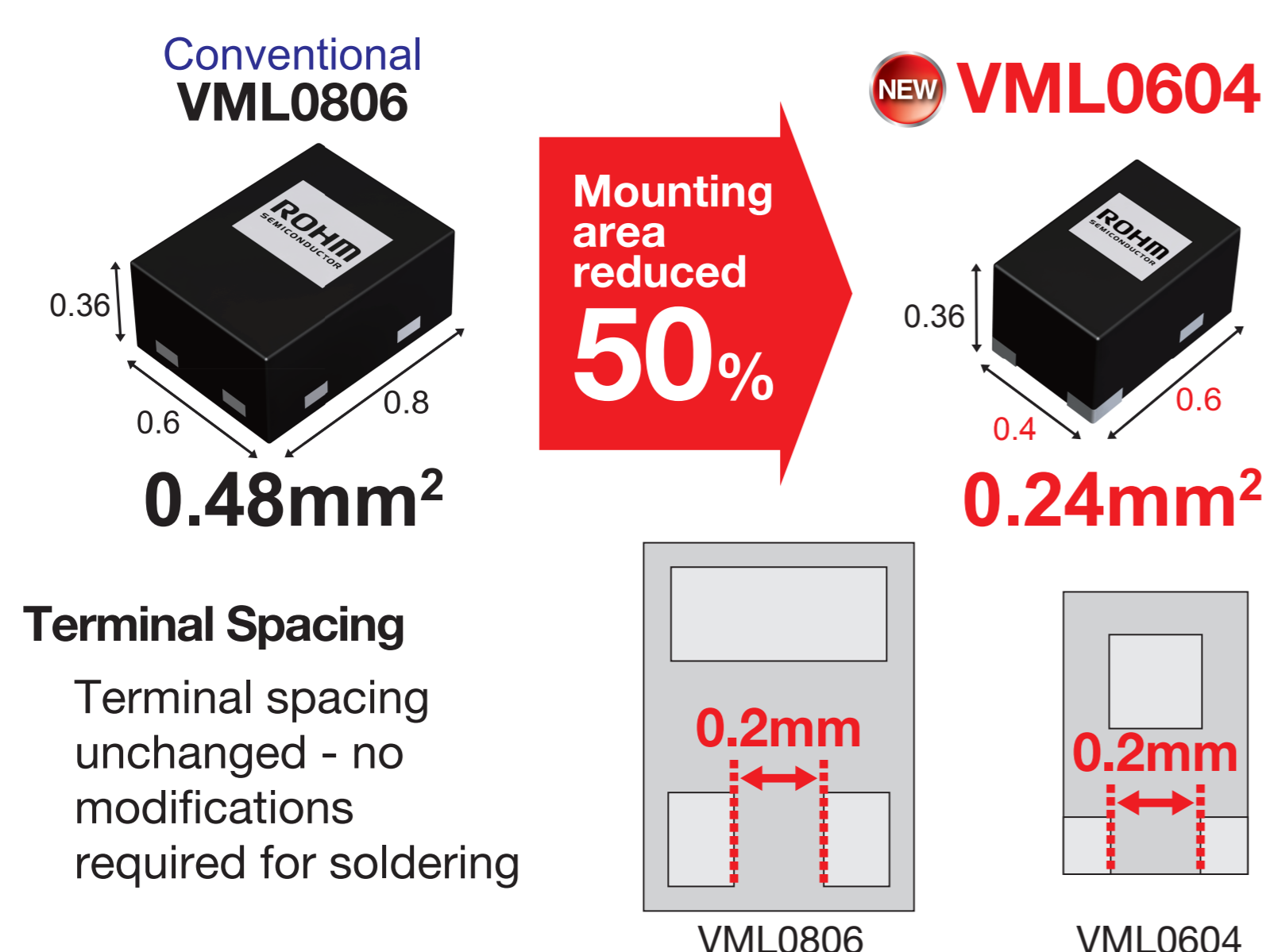
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## Applications

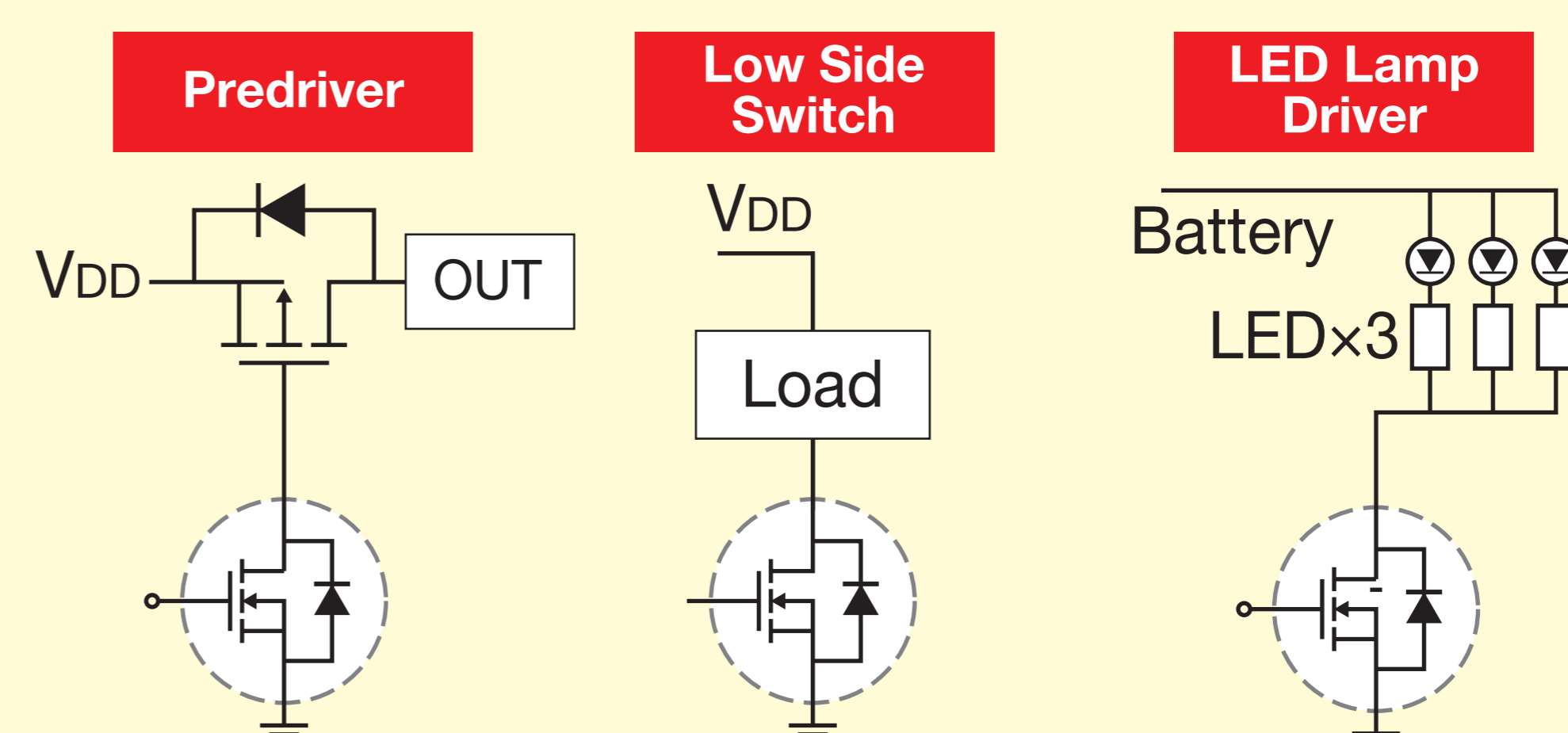
- Smartphones
- Other portable equipment
- Wearable devices

## Dimensions (Unit : mm)

Ultra-compact size provides greater space savings



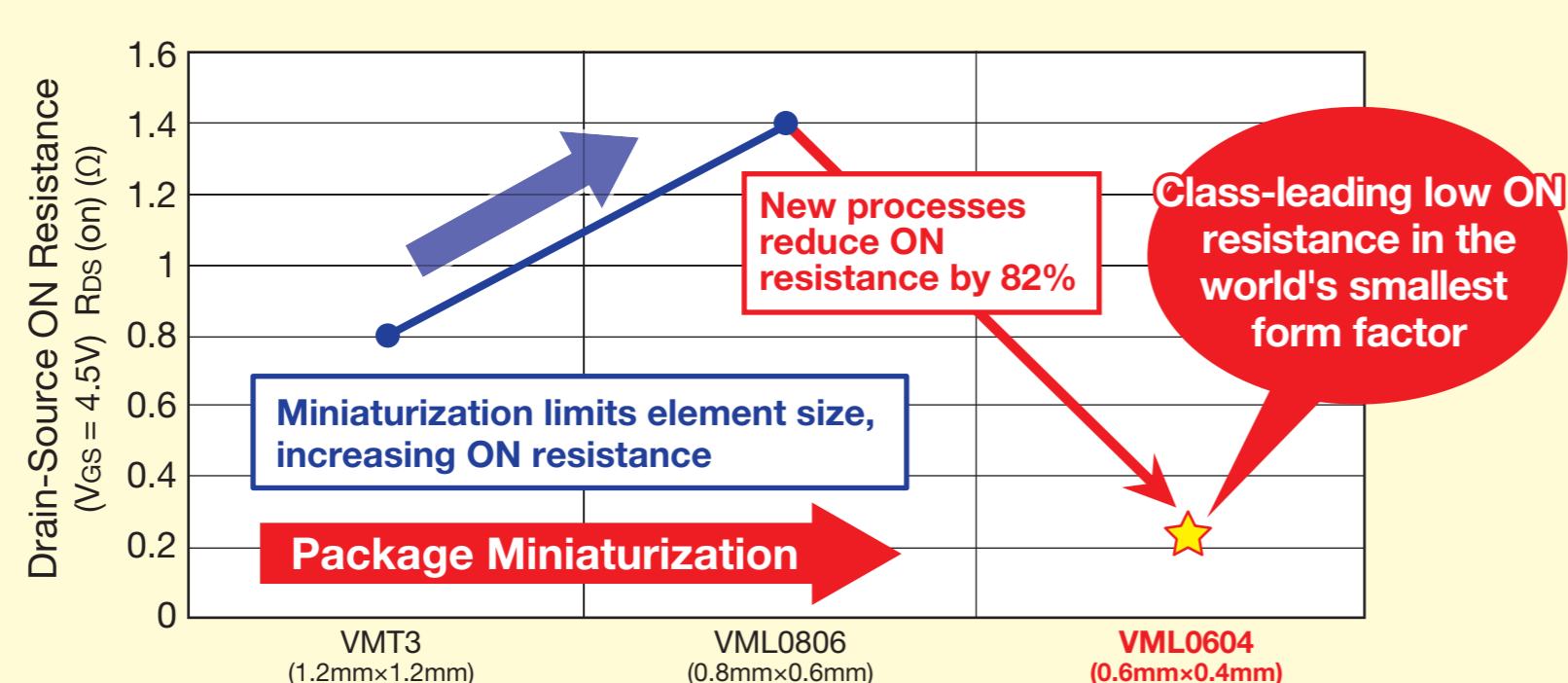
## Application Circuit Diagrams



Maintains the basic performance of small-signal transistors, making them suitable for a range of applications

## Electrical Characteristics

Compact size with minimal ON resistance



## Lineup

Part No.	Polarity (ch)	V <sub>DS</sub> (V)	I <sub>D</sub> (A)	R <sub>DS</sub> (on) Typ.(Ω)						Drive Voltage (V)
				V <sub>GS</sub> (V)						
				0.9	1.2	1.5	2.5	4.5	10	
☆ RV3L003GN	N	60	0.3	-	-	-	-	2.6	1.8	4.5
☆ RV3J001YN		50	0.1	11	8.3	7.5	6.4	5.6	-	0.9
☆ RV3G006GN		40	0.6	-	-	-	-	1.1	0.8	4.5
☆ RV3E007AJ		30	0.7	-	-	-	0.36	0.25	-	2.5
☆ RV3C002UN		20	0.15	-	3.8	2.7	1.7	1.4	-	1.2
☆ RV3E005AT	P	-30	-0.5	-	-	-	-	0.9	0.62	4.5
☆ RV3C006BC		-20	-0.6	-	-	0.72	0.5	0.39	-	1.5
☆ RV3C001ZP		-20	-0.1	-	10	6.0	3.4	2.5	-	1.2

☆ : Under development