

# Leakage Detection IC for Automotive

BD9582F-M



## The industry's first ultra-low power consumption leakage detection IC for automotive applications

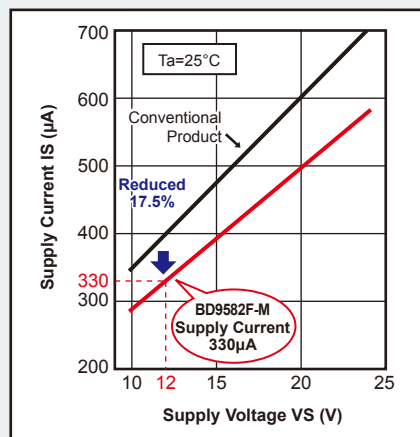
### Product Outline

In recent years, with the proliferation of hybrid and electric vehicles comes an increase in the number of AC outlets installed that support high power consumption consumer equipment and which are expected to be used as emergency power sources during unforeseen events such as disasters. ROHM's BD9582F-M represents the first\* automotive-grade (AEC-Q100-compliant) leakage detection IC compatible with high temperature operation up to 105°C, making it ideal for use in AC inverters and other equipment in HEVs and EVs. In addition, industry-low current consumption contributes to significantly longer battery life.

\*ROHM April 2013 survey

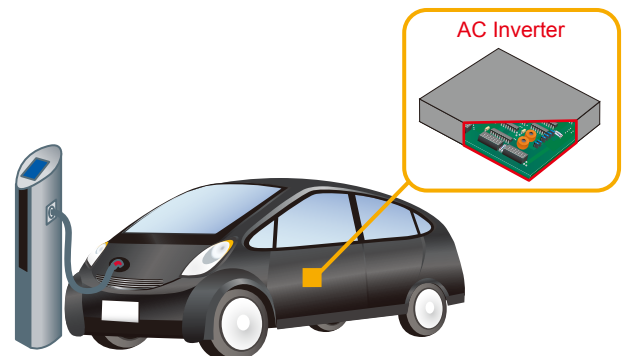
### Industry-low current consumption

Features the lowest current consumption in the industry at 330uA (typ.), significantly reducing battery consumption in continuously operating earth leakage circuit breakers and ground fault interrupters.



### Application example

Ideal for AC inverters and chargers in electric and hybrid vehicles. Also suitable for general-purpose ground fault interrupters, earth leakage circuit breakers, and leakage relays.



### Lineup

Package	Part No.	Operating Temp. (°C)	Supply Voltage (V)	Supply Current (µA)	Trip Voltage* <sup>1</sup> (mV)	Detection Method (Wave)	RoHS Compliant	Automotive-Grade (AEC-Q100 <sup>2</sup> -compliant)
SOP8 <i>New</i>	<b>BD9582F-M</b>	<b>-40 to 105</b>	12 to 22	330	7.5	0.5	Yes	Yes
SOP8	<b>BD9582F</b>	-20 to 95	12 to 22	330	7.5	0.5	Yes	—
SIP8	<b>BD9582N</b>	-20 to 95	12 to 22	330	7.5	0.5	Yes	—
SOP8	<b>BD9584F</b>	-20 to 95	8 to 22	250	9.2	1.0	Yes	—

\*1: The voltage at which the IC determines a leakage detection event has occurred

\*2: A quality standard that defines stress testing for automotive certification of ICs

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The content specified in this document is correct as of 11th April, 2013.

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Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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