

# Leakage Detection IC for Automotive

BD9582F-M



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

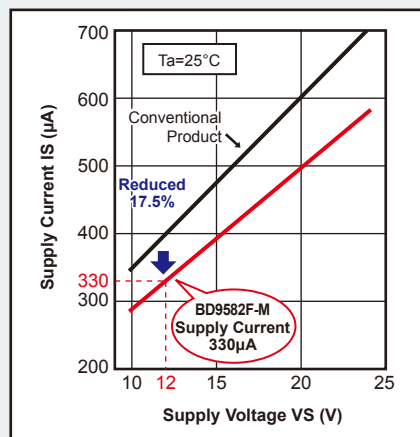
### Product Outline

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

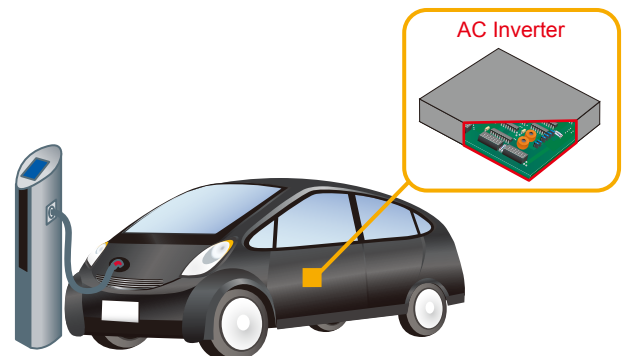
### Industry-low current consumption

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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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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