Voltage Tracking IC BD425x0xxx-C

Features

- Ultra Low Iq : 40μA(Typ)
- Output Current : 50/70/250 mA
- Tracking voltage Accuracy : ±10～15mV
- Ceramic condenser support
- Operating temperature range (Tj):
  -40℃～150℃
- for Sensor power supply
- Built-in many type of Protection circuit
  Over Current Protection/Thermal Shut Down
- AEC-Q100 qualified

Lineup

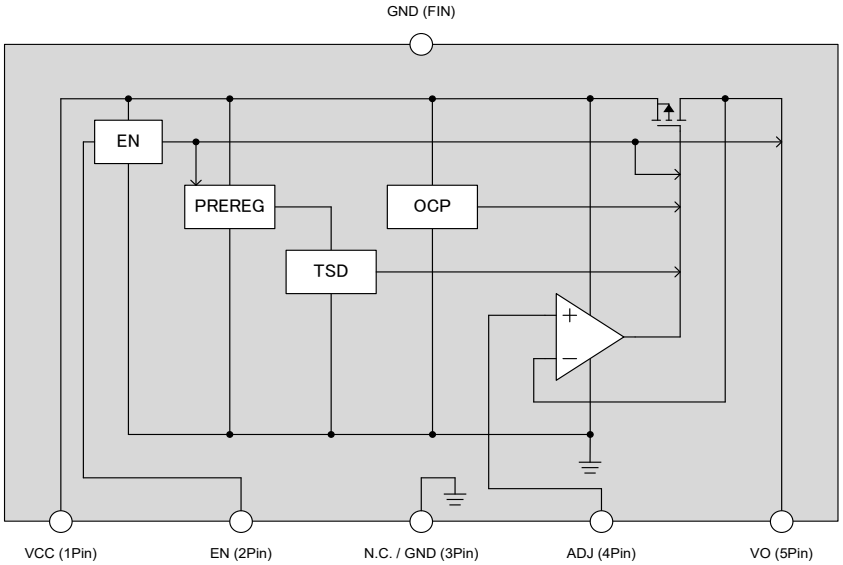
HTSOP-J8
4.9mm×6.0mm×1.0mm

SOP-J8
4.90mm×6.00mm×1.65mm

SSOP5
2.90mm×2.8mm×1.25mm

TO263-5
10.16mm×15.mm×4.7mm

Block Diagram



BD42530FP2-C

Applications

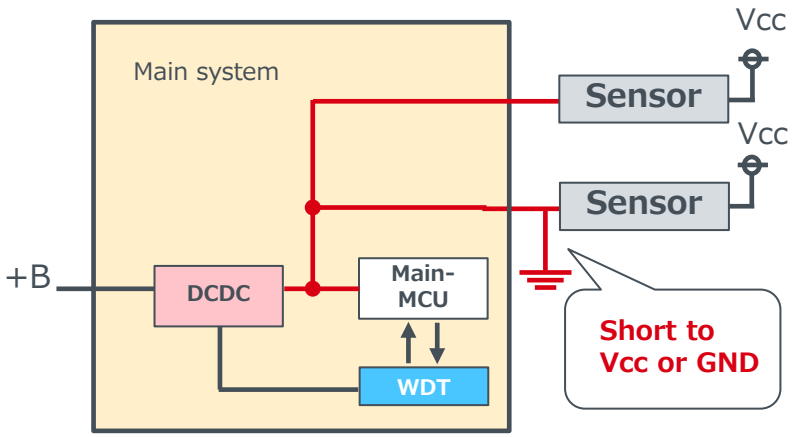
- Power supply for sensor
- Automotive equipment
- Car audio ,Car navigation system
- Other Electronic equipment

Configuration example of redundant design using Voltage Tracking IC

Voltage Tracking IC prevents secondary failure in the event of a short circuit to VCC or Ground fault of sensor board. LDO for Sub-MCU contribute to redundant design.

✓ Conventional configuration

Directly supplied to the sensor board by the DCDC for microcontroller

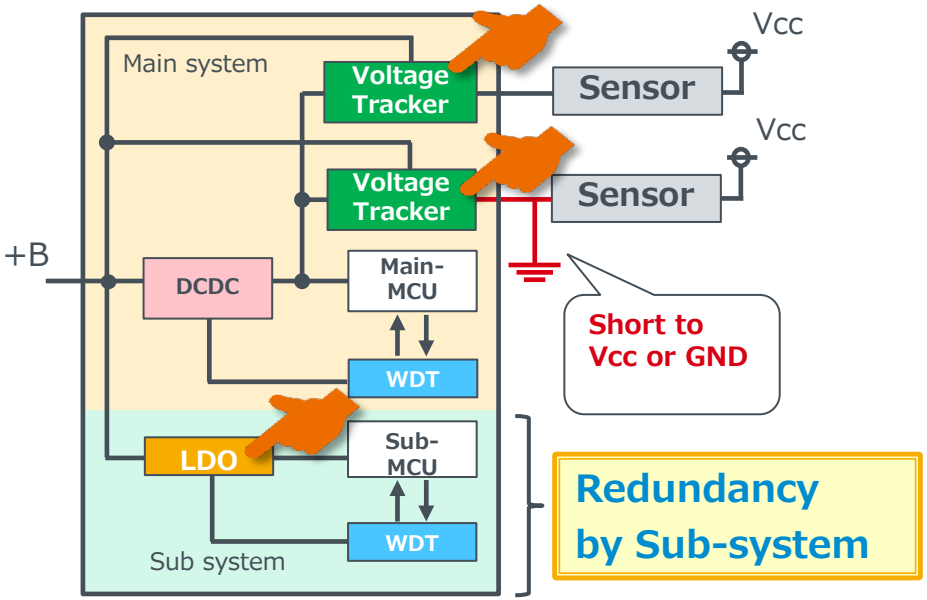


The event of a short circuit to VCC or Ground fault of sensor board.

The input voltage of the microcontroller will be abnormal and the system will go down.

✓ Redundant Design configuration

Supplied to the Sensor board by the Voltage tracking IC + Sub system



The event of a short circuit to VCC or Ground fault of sensor board.

Only the output of voltage tracking IC shorts to the Power or Ground fault. No impact on the power supply to the microcontroller and the system operations.

Linear Regulator for Automotive

We have a new lineup of Voltage Tracking IC

Voltage Tracker Series

Vin / Io	0.05A	0.07A	0.25A	0.40A
45-50V	BD42500G-C	BD42540FJ-C	BD42530EFJ /FPJ/FP2-C	BD42510FPJ /FP2-C

Multifunction LDO Series / SBC

Vin / Io	0.2A	0.5A
45-50V	BD3010AFV-M(LDO+WDT) BD820F50EFJ-C(LDO+WDT Iq=6μA) BD4269xxx-C(LDO+RESET)	BD3020HFP-M (LDO+WDT, Reset Detection Voltage Adjustable type) BD3021HFP-M (LDO+WDT, Reset Detection Voltage 4.5V) BD4271xxx-C(LDO+WDT) BD4271EFJ-C(LDO+WDT, Small PKG) BD42754xxx-C(LDO+RESET)

WDT +RESET Series

Vin / Func.	WDT + RESET
40V	BD37BxxYYY-C BD87BxxYYY-C BD37CxxYYY-C BD87CxxYYY-C

Red part：In development　Blue part：under planning