

Featured Products



300mA products are now available in addition to the popular 200mA low noise series

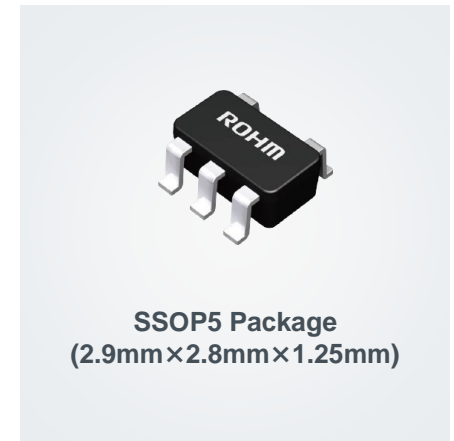
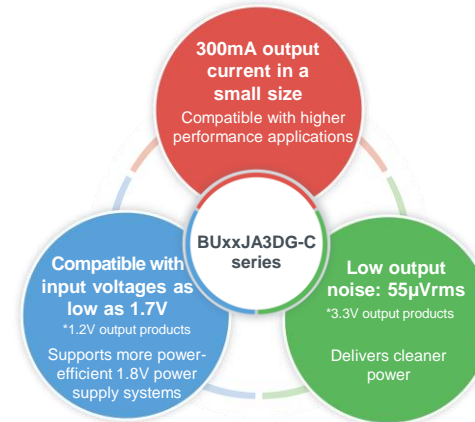
Compact 300mA Output Secondary CMOS LDO Regulators

BUxxJA3DG-C series

















- Delivers high 300mA output current in a small package**
 Increases output current from 200mA to 300mA in the SSOP5 package (2.9mm×2.8mm)
- Operation possible from as low as 1.7V (BU12JA3DG-C)**
 Supports 1.8V power supply systems that minimize loss and heat generation (and noise)
- Low output noise characteristics**
 Reduces output noise by approximately 40% over typical low-noise LDOs (55µVrms for the BU33JA3DG-C)

Ideal for ADAS Sensor/Radar Power Supplies

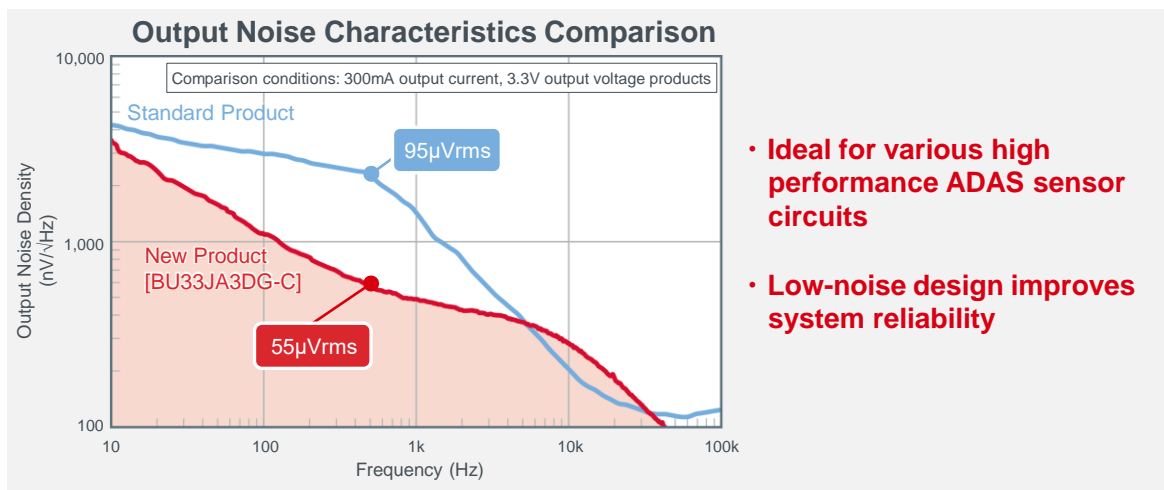


Secondary CMOS LDO Regulators (BUxxJA3DG-C)

Part No.	Input Voltage (V)	Output Voltage (V)	Output Voltage Accuracy (%)	Output Current (Max) (mA)	Output Noise (µVrms)	Input-Output Voltage Difference (mV) (I _o =300mA)	Quiescent Current (Typ) (µA)	Output Capacitance (Typ-Max) (µF)	Operating Temperature (°C)	Package	ComfySIL™ Functional Safety Categories	Automotive-Grade AEC-Q100
New BU12JA3DG-C  	1.7 to 6.0	1.2	±2	300	30	500	37	1 to 47	-40 to +150	SSOP5	FS supportive*	YES
New BU15JA3DG-C  	1.9 to 6.0	1.5			35	365				SSOP5		
New BU18JA3DG-C  	2.2 to 6.0	1.8			40	330				SSOP5		
New BU25JA3DG-C  	2.8 to 6.0	2.5			45	240				SSOP5		
New BU30JA3DG-C  	3.3 to 6.0	3.0			50	220				SSOP5		
New BU33JA3DG-C  	3.6 to 6.0	3.3			55	200				SSOP5		

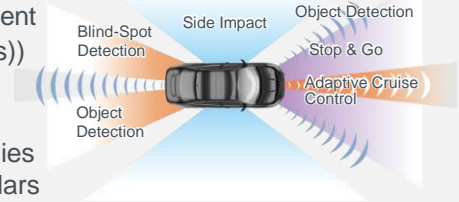
ComfySIL™ is a trademark or registered trademark of ROHM Co., Ltd.
 *FS Supported: ICs developed for automotive use that can support safety analysis related to functional safety.
 Click on the  icon to access the product datasheet and the  icon to view the datasheet on ROHM's website.

■ Secondary LDO Regulator Output Noise Characteristics



■ Applications

- ADAS sensors, cameras, and radars
- Infotainment systems (i.e. instrument clusters, head-up displays (HUDs))



Enables use in a wide range of applications, including power supplies for noise-sensitive sensors and radars



Now available from online distributors

■ Automotive Secondary LDO Regulator Lineup (AEC-Q100 Qualified)

Output Current (Max)	200mA	New 300mA	500mA	1,000mA	
Type	Compact Type		High Heat Dissipation Type		
Part No.	BUxxJA2VG-C (No discharge function) BUxxJA2DG-C (Built-in discharge function) 1.0 to 3.3V output (10models) • Compact package (SSOP5) • Low output noise BUxxJA2MNVX-C series 1.0 to 3.4V output (13models) • SSON004R1010 Package 1.0×1.0mm	New BUxxJA3DG-C series 1.2 to 3.3V output (6 models) • Compact package (SSOP5) • Low output noise <div style="border: 1px solid red; padding: 5px; text-align: center; color: white;"> New compact 300mA products optimized for high-performance ADAS </div>	BDxxIA5MEFJ-M series 1.0 to 3.3V output (7models) +Variable output type (0.8V to 4.5V) • High heat dissipation package (HTSOP-J8) BD00IA5MHFV-M Variable output type (0.8V to 4.5V) • HVSO6 Package 3.0×1.6mm	BDxxIC0MEFJ-M series 1.0 to 3.3V output (7models) +Variable output type (0.8V to 4.5V) • High heat dissipation package (HTSOP-J8) BD00JC0MNUX-M Variable output type (0.65V to 2.7V) • VSON010X3030 Package 3.0×3.0mm	
Application Examples	Vehicle cameras	Automotive sensors/radars	Vehicle antennas	Car audio	Car navigation systems

*The xx in the part number indicates the output voltage. Ex: For the BUxxJA3DG-C series, an output voltage of 1.2V corresponds to the part number BU12JA3DG-C.

The information contained in this document is current as of August 1st, 2022.



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