2024 Edition

By Category PDF

Category Amplifiers & Linear

ICs

Amplifiers & Linear IC

Operational Amplifiers & Comparators

Operational Amplifiers

High Performance (Products with multiple features)

Automotive Rail-to-Rail Input/Output High Performance Operational Amplifiers

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New LMR376Y	1	2.5 to 5.5	0.85	0.19	0.0005	55	V_{SS} to V_{DD}	V_{SS}+0.005 to V_{DD}−0.007	140	100	110	1.1	3.2	5.5	−40 to +125	SSOP5	G-C	FSs	YES
Nano BD7280Y	1	2.5 to 5.5	1.7	1.6	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.010 to V_{DD}−0.010	115	100	100	10	7	12	−40 to +125	SSOP6	G-C	FSs	YES
Nano BD7281Y	1	2.5 to 5.5	1.7	1.6	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.010 to V_{DD}−0.010	115	100	100	10	7	12	−40 to +125	SSOP5	G-C	FSs	YES
TLR376Y	1	2.5 to 5.5	0.645	0.15	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.015 to V_{DD}−0.025	137	100	95	2	4	8	−40 to +125	SSOP5	G-C	FSs	YES
TLR2376Y	2	2.5 to 5.5	1.245	0.15	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.015 to V_{DD}−0.025	137	100	95	2	4	8	−40 to +125	MSOP8	FVM-C	FSs	YES
																SOP-J8	FJ-C	FSs	YES
TLR4376Y	4	2.5 to 5.5	2.49	0.15	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.015 to V_{DD}−0.025	137	100	95	2	4	8	−40 to +125	SSOP-B14	FV-C	FSs	YES
TLR377Y	1	2.5 to 5.5	0.645	1.2	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.015 to V_{DD}−0.025	137	100	95	2	4	8	−40 to +125	SSOP5	G-C	FSs	YES
TLR2377Y	2	2.5 to 5.5	1.245	1.2	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.015 to V_{DD}−0.025	137	100	95	2	4	8	−40 to +125	MSOP8	FVM-C	FSs	YES
																SOP-J8	FJ-C	FSs	YES
TLR4377Y	4	2.5 to 5.5	2.49	1.2	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.015 to V_{DD}−0.025	137	100	95	2	4	8	−40 to +125	SSOP-B14	FV-C	FSs	YES

Automotive High-Performance Operational Amplifiers

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
LMR1802Y	1	2.5 to 5.5	1.1	0.45	0.0005	3.5	V_{SS} to V_{DD}−1.0	V_{SS}+0.004 to V_{DD}−0.007	140	105	125	1.1	4.4	2.9	−40 to +125	SSOP5	G-C	FSs	YES
LMR1801Y	1	2.2 to 5.5	0.95	0.95	0.0005	3.5	V_{SS} to V_{DD}−1.0	V_{SS}+0.003 to V_{DD}−0.007	140	100	110	2.5	6	5	−40 to +125	SSOP5	G-C	FSs	YES
LMR1803Y	1	2.2 to 5.5	1	0.15	0.0005	3.5	V_{SS} to V_{DD}−1.0	V_{SS}+0.003 to V_{DD}−0.007	140	100	110	2.5	6	5	−40 to +125	SSOP5	G-C	FSs	YES

Rail-to-Rail Input/Output High Performance Operational Amplifiers

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix
Nano BD7282	2	2.5 to 5.5	1.7	1.6	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.010 to V_{DD}−0.010	115	100	100	10	7	12	−40 to +125	MSOP8	FVM-LB
Nano BD7284	4	2.5 to 5.5	1.7	1.6	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.010 to V_{DD}−0.010	115	100	100	10	7	12	−40 to +125	SOP14	F-LB
TLR377	1	2.5 to 5.5	0.585	1.4	0.0005	50	V_{SS} to V_{DD}	V_{SS}+0.015 to V_{DD}−0.025	137	100	95	2	4	12	−40 to +125	HVSOF5	HFV-LB
BD5291	1	1.7 to 5.5	0.65	2.5	0.001	17	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	110	90	90	2.5	3.2	18	−40 to +85	SSOP5	G
																VSOF5	FVE
																UCSP50L1	GWL

High Performance Operational Amplifiers

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix
LMR1802	1	2.5 to 5.5	1.1	0.45	0.0005	3.5	V_{SS} to V_{DD}−1.0	V_{SS}+0.005 to V_{DD}−0.007	140	105	125	1.1	3	2.9	−40 to +125	SSOP5	G-LB
LMR1801	1	2.2 to 5.5	0.95	0.9	0.0005	3.5	V_{SS} to V_{DD}−1.0	V_{SS}+0.005 to V_{DD}−0.007	140	100	125	2.5	6	5	−40 to +125	SSOP5	G-LB
																HVSOF5	HFV-LB
LMR1803	1	2.2 to 5.5	1	0.15	0.0005	3.5	V_{SS} to V_{DD}−1.0	V_{SS}+0.003 to V_{DD}−0.007	140	100	110	2.5	6	5	−40 to +125	SSOP5	G-LB

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Nano Nano Cap

Nano Mark is a product using Nano Pulse Control™ technology, Nano Energy™ technology or Nano Cap™ technology. ROHM's innovative "Nano" power supply technologies achieve breakthrough energy savings and miniaturization.

Nano Mark is a product equipped with Nano Cap™ extremely stable control technology. Nano Energy™, Nano Pulse Control™ and Nano Cap™ is a trademark or a registered trademark of ROHM Co., Ltd.

Low Offset Voltage (Input Offset Voltage ≤ 2.5mV)

Automotive Rail-to-Rail Input/Output Low Offset Operational Amplifier

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New LMR1001Y	1	2.7 to 5.5	0.85	0.012	0.15	35	V_{SS} to V_{DD}	V_{SS}+0.010 to V_{DD}−0.020	145	130	115	1.3	1.5	70	−40 to +125	SOP8	F-C	FSs	YES

Rail-to-Rail Input/Output Low Offset Voltage Operational Amplifiers

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix
New EMARMOUR BD87522	2	4 to 15	3.95	1	0.001	16.5	V_{SS} to V_{DD}	V_{SS}+0.03 to V_{DD}−0.05	110	85	90	2.4	—	50	−40 to +125	SSOP-B14	FV-LB
New EMARMOUR BD87524	4	4 to 15	7.9	1	0.001	16.5	V_{SS} to V_{DD}	V_{SS}+0.03 to V_{DD}−0.05	110	85	90	2.4	—	50	−40 to +125	SSOP-B14	FV-LB

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EMARMOUR Mark is achieves the Industry-leading noise immunity.
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Low Noise (Equivalent Input Noise Voltage ≤ 20nV/√Hz)

Automotive Low Noise Operational Amplifiers

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BA4580Y	2	4 to 32	6	3	100	—	V_{EE}+1.5 to V_{CC}−1.5	V_{EE}+1.5 to V_{CC}−1.5	110	110	110	5	10	5	−40 to +105	SOP8	F-M	FSs	YES
																MSOP8	FVM-M	FSs	YES
BA4584Y	4	4 to 32	11	3	100	—	V_{EE}+1.5 to V_{CC}−1.5	V_{EE}+1.5 to V_{CC}−1.5	110	110	110	5	10	5	−40 to +105	SSOP-B14	FV-M	FSs	YES
BA4560Y	2	8 to 30	3	6	50	25	V_{EE}+1.0 to V_{CC}−1.0	V_{EE}+1.0 to V_{CC}−1.0	100	90	90	4	4	8	−40 to +105	SOP8	F-M	FSs	YES
																SSOP-B8	FV-M	FSs	YES
																MSOP8	FVM-M	FSs	YES
BA4558Y	2	8 to 30	3	6	60	—	V_{EE}+1.0 to V_{CC}−1.0	V_{EE}+1.0 to V_{CC}−1.0	100	90	90	1	2	12	−40 to +105	SOP8	F-M	FSs	YES
																SSOP-B8	FV-M	FSs	YES
																MSOP8	FVM-M	FSs	YES

Rail-to-Rail Input/Output Low Noise Operational Amplifiers

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix
BD12730	1	1.8 to 5.5	0.32	5	50	5	GND to V+	GND+0.05 to V+−0.05	85	70	85	0.4	1	10	−40 to +85	SSOP5	G
BD12732	2	1.8 to 5.5	0.58	5	50	5	GND to V+	GND+0.05 to V+−0.05	85	70	85	0.4	1	10	−40 to +85	SOP8	F
																SOP-J8	FJ
																SSOP-B8	FV
																TSSOP-B8J	FVJ
																MSOP8	FVM
																TSSOP-B8	FVT
BD12734	4	1.8 to 5.5	1.2	5	50	5	GND to V+	GND+0.05 to V+−0.05	85	70	85	0.4	1	10	−40 to +85	SOP14	F
																SOP-J14	FJ
																SSOP-B14	FV
																TSSOP-B14J	FVJ

Low Noise Operational Amplifiers

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix
LM4565	2	4 to 36	4.5	1.5	70	130	V_{EE}+1.0 to V_{CC}−1.0	V_{EE}+1.0 to V_{CC}−1.0	100	100	100	5	10	5	−40 to +85	SOP8	F
																SOP-J8	FJ
																SSOP-B8	FV
																TSSOP-B8	FVT
																MSOP8	FVM
																TSSOP-B8J	FVJ
LM4559	2	8 to 36	3.3	1.5	40	—	V_{EE}+2.0 to V_{CC}−2.0	V_{EE}+2.0 to V_{DD}−2.0	110	100	100	3.5	4	5	−40 to +85	SOP8	F
																SOP-J8	FJ
																SSOP-B8	FV
																TSSOP-B8	FVT
																MSOP8	FVM
																TSSOP-B8J	FVJ
BA4564W	4	8 to 30	6	2.5	50	25	V_{EE}+1.0 to V_{CC}−1.0	V_{EE}+1.0 to V_{CC}−1.0	100	90	90	4	4	8	−40 to +105	SSOP-B14	FV
BA4564R	4	8 to 30	6	6	50	25	V_{EE}+1.0 to V_{CC}−1.0	V_{EE}+1.0 to V_{CC}−1.0	100	90	90	4	4	8	−40 to +105	SSOP-B14	FV
BA4510	2	2 to 7	5	6	80	10	V_{EE}+1.5 to V_{CC}−1.5	V_{EE}+0.1 to V_{CC}−0.1	90	80	80	5	10	6	−20 to +75	SOP8	F
																SSOP-B8	FV
															−40 to +75	MSOP8	FVM
																TSSOP-B8	FVT
BA4584	4	4 to 32	12	3	100	—	V_{EE}+1.5 to V_{CC}−1.5	V_{EE}+1.5 to V_{CC}−1.5	110	110	110	5	5	5	−40 to +85	SSOP-B14	FV
BA4584R	4	4 to 19	11	3	100	—	V_{EE}+1.5 to V_{CC}−1.5	V_{EE}+1.5 to V_{CC}−1.5	110	110	110	5	5	5	−40 to +105	SOP14	F
																SSOP-B14	FV

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High Speed (GBW ≥ 5MHz)

Automotive High Speed Operational Amplifier

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
LMR1701Y	1	2.7 to 5.5	9.6	6	0.0026	200	V_{SS} to $V_{DD}-0.9$	$V_{SS}+0.020$ to $V_{DD}-0.015$	120	80	86	80	150	3	−40 to +125	SSOP6	G-C	FSs	YES

High Speed Operational Amplifiers

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix
LMR1701	1	2.7 to 5.5	9.6	6	0.0026	200	V_{SS} to $V_{DD}-0.9$	$V_{SS}+0.02$ to $V_{DD}-0.015$	120	80	86	80	150	3	−40 to +125	SSOP6	G-LB
Nano EMARMOUR BD77501	1	7 to 15	1.3	27	0.001	7.5	V_{SS} to $V_{DD}-2.0$	$V_{SS}+0.07$ to $V_{DD}-0.06$	75	70	70	10	8	—	−40 to +85	SSOP5	G
Nano EMARMOUR BD77502	2	7 to 15	2.6	27	0.001	7.5	V_{SS} to $V_{DD}-2.0$	$V_{SS}+0.07$ to $V_{DD}-0.06$	75	70	70	10	8	—	−40 to +85	MSOP8	FVM
Nano EMARMOUR BD77504	4	7 to 15	5.2	27	0.001	7.5	V_{SS} to $V_{DD}-2.0$	$V_{SS}+0.07$ to $V_{DD}-0.06$	75	70	70	10	8	—	−40 to +85	SSOP-B14	FV
BU7485/ BU7485S	1	3.0 to 5.5	1.5	9.5	0.001	8	V_{SS} to $V_{DD}-1.4$	$V_{SS}+0.1$ to $V_{DD}-0.1$	105	60	80	10	10	—	−40 to +85/ −40 to +105	SSOP5	G
BU7486/ BU7486S	2	3.0 to 5.5	3	9.5	0.001	8	V_{SS} to $V_{DD}-1.4$	$V_{SS}+0.1$ to $V_{DD}-0.1$	105	60	80	10	10	—	−40 to +85/ −40 to +105	SOP8	F
																SSOP-B8	FV
																MSOP8	FVM
BU7487/ BU7487S	4	3.0 to 5.5	6	9.5	0.001	8	V_{SS} to $V_{DD}-1.4$	$V_{SS}+0.1$ to $V_{DD}-0.1$	105	60	80	10	10	—	−40 to +85/ −40 to +105	SOP14	F
																SSOP-B14	FV
LMR821	1	2.5 to 5.5	0.325	3.5	40	40	V_{SS} to $V_{DD}-0.9$	$V_{SS}+0.1$ to $V_{DD}-0.1$	105	90	85	2	5.5	30	−40 to +85	SSOP5	G
LMR822	2	2.5 to 5.5	0.65	5	40	40	V_{SS} to $V_{DD}-0.9$	$V_{SS}+0.1$ to $V_{DD}-0.1$	105	90	85	2	5.5	30	−40 to +85	SOP8	F
																SOP-J8	FJ
																SSOP-B8	FV
																TSSOP-B8J	FVJ
																MSOP8	FVM
																TSSOP-B8	FVT
LMR824	4	2.5 to 5.5	1.13	5	40	40	V_{SS} to $V_{DD}-0.9$	$V_{SS}+0.1$ to $V_{DD}-0.1$	105	90	85	2	5.5	30	−40 to +85	SOP14	F
																SOP-J14	FJ
																TSSOP-B14J	FVJ
BA2107	1	2 to 14	1.8	6	150	1.4	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{SS}+0.2$ to $V_{DD}-0.2$	80	74	80	4	12	—	−40 to +85	SSOP5	G

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Low Power (Circuit Current ≤ 100μA/ch)

Automotive Rail-to-Rail Input/Output Low Power Operational Amplifiers

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (μA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BU7241Y	1	1.8 to 5.5	70	10	0.001	10	V_{SS} to V_{DD}	$V_{SS}+0.05$ to $V_{DD}-0.05$	100	70	80	0.4	1.0	—	−40 to +125	SSOP5	G-C	FSs	YES
BU7242Y	2	1.8 to 5.5	180	10	0.001	10	V_{SS} to V_{DD}	$V_{SS}+0.05$ to $V_{DD}-0.05$	100	70	80	0.4	1.0	—	−40 to +125	MSOP8	FVM-C	FSs	YES
BU7244Y	4	1.8 to 5.5	360	10	0.001	10	V_{SS} to V_{DD}	$V_{SS}+0.05$ to $V_{DD}-0.05$	100	70	80	0.4	1.0	—	−40 to +125	SSOP-B14	FV-C	FSs	YES

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Low Power (Circuit Current ≤ 100μA/ch)

Rail-to-Rail Input/Output Low Power Operational Amplifiers

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (μA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix
BU7265/ BU7265S	1	1.8 to 5.5	0.35	8.5	0.001	2.4	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.0024	0.004	—	−40 to +85/ −40 to +105	SSOP5	G
BU7266/ BU7266S	2	1.8 to 5.5	0.7	8.5	0.001	2.4	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.0024	0.004	—	−40 to +85/ −40 to +105	SOP8	F
																SSOP-B8	FV
																MSOP8	FVM
BU7205/ BU7205S	1	1.8 to 5.5	0.4	9.5	0.001	1.2	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.0025	0.0025	—	−40 to +85/ −40 to +105	HVSOF5	HFV
BU7245/ BU7245S	1	1.8 to 5.5	5	8.5	0.001	4	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.035	0.07	—	−40 to +85/ −40 to +105	HVSOF5	HFV
BU7271/ BU7271S	1	1.8 to 5.5	8.6	8	0.001	4	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	100	60	80	0.05	0.09	—	−40 to +85/ −40 to +105	SSOP5	G
BU7275/ BU7275S	1	1.8 to 5.5	40	6	0.001	8	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.3	0.6	—	−40 to +85/ −40 to +105	HVSOF5	HFV
LMR931	1	1.8 to 5.0	85	4	5	80	V_{SS} to V_{DD}	V_{SS}+0.037 to V_{DD}−0.04	101	94	85	0.42	1.5	50	−40 to +85	SSOP5	G
LMR932	2	1.8 to 5.0	140	5.5	5	80	V_{SS} to V_{DD}	V_{SS}+0.037 to V_{DD}−0.04	101	94	85	0.42	1.5	50	−40 to +85	SOP8	F
																SOP-J8	FJ
																SSOP-B8	FV
																TSSOP-B8J	FVJ
																MSOP8	FVM
																TSSOP-B8	FVT
LMR934	4	1.8 to 5.0	290	5.5	5	80	V_{SS} to V_{DD}	V_{SS}+0.037 to V_{DD}−0.04	101	94	85	0.42	1.5	50	−40 to +85	SOP14	F
																SOP-J14	FJ
																SSOP-B14	FV
																TSSOP-B14J	FVJ
LMR981	1	1.8 to 5.0	85	4	5	80	V_{SS} to V_{DD}	V_{SS}+0.037 to V_{DD}−0.04	101	94	85	0.42	1.5	50	−40 to +85	SSOP6	G
LMR982	2	1.8 to 5.0	140	5.5	5	80	V_{SS} to V_{DD}	V_{SS}+0.037 to V_{DD}−0.04	101	94	85	0.42	1.5	50	−40 to +85	MSOP10	FVM
BU7241/ BU7241S	1	1.8 to 5.5	70	9	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.4	0.9	—	−40 to +85/ −40 to +105	SSOP5	G
BU7242/ BU7242S	2	1.8 to 5.5	180	9	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.4	0.9	—	−40 to +85/ −40 to +105	SOP8	F
																MSOP8	FVM
																VSON008X2030	NUX
BU7244/ BU7244S	4	1.8 to 5.5	360	9	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.4	0.9	—	−40 to +85/ −40 to +105	SOP14	F
																SSOP-B14	FV

Low Power Operational Amplifiers

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (μA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix
BU7411/ BU7411S	1	1.6 to 5.5	0.35	8	0.001	2.4	V_{SS} to V_{DD}−1.0	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.0024	0.004	—	−40 to +85/ −40 to +105	SSOP5	G
BU7421/ BU7421S	1	1.7 to 5.5	8.5	6	0.001	4	V_{SS} to V_{DD}−1.2	V_{SS}+0.1 to V_{DD}−0.1	100	60	80	0.05	0.09	—	−40 to +85/ −40 to +105	SSOP5	G
BU7475/ BU7475S	1	1.7 to 5.5	9	6.5	0.001	7	V_{SS} to V_{DD}−1.2	V_{SS}+0.1 to V_{DD}−0.1	100	60	80	0.05	0.1	—	−40 to +85/ −40 to +105	HVSOF5	HFV
BU7445/ BU7445S	1	1.7 to 5.5	40	6	0.001	8	V_{SS} to V_{DD}−1.2	V_{SS}+0.1 to V_{DD}−0.1	100	60	80	0.25	0.4	—	−40 to +85/ −40 to +105	HVSOF5	HFV
BU7441/ BU7441S	1	1.7 to 5.5	50	6	0.001	6	V_{SS} to V_{DD}−1.2	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.3	0.6	—	−40 to +85/ −40 to +105	SSOP5	G
BU7442/ BU7442S	2	1.7 to 5.5	100	6	0.001	6	V_{SS} to V_{DD}−1.2	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.3	0.6	—	−40 to +85/ −40 to +105	SOP8	F
																MSOP8	FVM
																VSON008X2030	NUX
BU7444S	4	1.7 to 5.5	200	6	0.001	6	V_{SS} to V_{DD}−1.2	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.3	0.6	—	−40 to +85/ −40 to +105	SOP14	F
TLR341	1	1.8 to 5.5	75	4	0.001	100	V_{SS} to V_{DD}−1.0	V_{SS}+0.01 to V_{DD}−0.01	110	90	95	1.2	2.3	33	−40 to +85	SSOP6	G
TLR342	2	1.8 to 5.5	150	4	0.001	100	V_{SS} to V_{DD}−1.0	V_{SS}+0.01 to V_{DD}−0.01	110	90	95	1.2	2.3	33	−40 to +85	SOP8	F
																SOP-J8	FJ
																TSSOP-B8J	FVJ
																TSSOP-B8	FVT
TLR344	4	1.8 to 5.5	300	4	0.001	100	V_{SS} to V_{DD}−1.0	V_{SS}+0.01 to V_{DD}−0.01	110	90	95	1.2	2.3	33	−40 to +85	SOP14	F
																SOP-J14	FJ
																TSSOP-B14J	FVJ
LMR341	1	2.7 to 5.5	80	4	0.001	113	V_{SS} to V_{DD}−1.0	V_{SS}+0.01 to V_{DD}−0.01	116	86	82	1	2	40	−40 to +85	SSOP6	G

General Purpose

Automotive Rail-to-Rail Input/Output General Purpose Operational Amplifiers

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/µs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
EMARMOUR BD87554Y	4	4 to 15	7.9	4	0.001	9.3	V_{SS} to V_{DD}	V_{SS}+0.03 to V_{DD}−0.05	110	80	90	2.4	—	50	−40 to +125	SSOP-B14	FV-C	FSs	YES
EMARMOUR BD87581Y	1	4 to 14	2.3	9	0.001	3.5	V_{SS} to V_{DD}	V_{SS}+0.03 to V_{DD}−0.05	110	60	80	3.5	4	—	−40 to +125	SSOP5	G-C	FSs	YES
EMARMOUR BD87582Y	2	4 to 14	5	9	0.001	3.5	V_{SS} to V_{DD}	V_{SS}+0.03 to V_{DD}−0.05	110	60	80	3.5	4	—	−40 to +125	MSOP8	FVM-C	FSs	YES
EMARMOUR BD87584Y	4	4 to 14	10	9	0.001	3.5	V_{SS} to V_{DD}	V_{SS}+0.03 to V_{DD}−0.05	110	60	80	3.5	4	—	−40 to +125	SSOP-B14	FV-C	FSs	YES
BU7264Y	4	1.8 to 5.5	1.1	11	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.05 to V_{DD}−0.05	95	60	80	1.1	2	—	−40 to +125	SSOP-B14	FV-C	FSs	YES

Automotive General Purpose Operational Amplifiers

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/µs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
EMARMOUR LM2904EY	2	3 to 36	0.6	6	20	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.2	0.5	—	−40 to +150	SOP8	F-C	FSs	YES
																SOP-J8	FJ-C	FSs	YES
																MSOP8	FVM-C	FSs	YES
New EMARMOUR LM2902EY	4	3 to 36	1	6	20	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.2	0.5	—	−40 to +150	SSOP-B14	FV-C	FSs	YES
EMARMOUR BA82904Y	2	3 to 36	0.5	6	20	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.2	0.5	—	−40 to +125	SOP8	F-C	FSs	YES
																MSOP8	FVM-C	FSs	YES
EMARMOUR BA82902Y	4	3 to 36	0.7	6	20	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.2	0.5	—	−40 to +125	SOP14	F-C	FSs	YES
																SOP-J14	FJ-C	FSs	YES
																SSOP-B14	FV-C	FSs	YES
																TSSOP-B14J	FVJ-C	FSs	YES
EMARMOUR BA83472Y	2	3 to 36	4.3	10	100	30	V_{EE} to V_{CC}−2.0	V_{EE}+0.3 to V_{CC}−1.0	100	97	97	8.5	3	—	−40 to +125	SOP8	F-C	FSs	YES
																MSOP8	FVM-C		
EMARMOUR BA83474Y	4	3 to 36	8.6	10	100	30	V_{EE} to V_{CC}−2.0	V_{EE}+0.3 to V_{CC}−1.0	100	97	97	8.5	3	—	−40 to +125	SSOP-B14	FV-C	FSs	YES
BA2904Y	2	3 to 36	0.5	3.5	20	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.2	0.5	40	−40 to +125	SOP8	F-C	FSs	YES
																SSOP-B8	FV-C	FSs	YES
																MSOP8	FVM-C	FSs	YES
			0.5	7	20	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.2	0.5	40	−40 to +125	SOP8	F-M	FSs	YES
																SSOP-B8	FV-M	FSs	YES
																MSOP8	FVM-M	FSs	YES
BA2902Y	4	3 to 36	0.7	3.8	20	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.2	0.5	40	−40 to +125	SOP14	F-C	FSs	YES
																SSOP-B14	FV-C	FSs	YES
			0.7	7	20	30	V_{EE} to V_{CC}−1.5	V_{EE} to V_{CC}−1.5	100	80	100	0.2	0.5	40	−40 to +125	SOP14	F-M	FSs	YES
																SSOP-B14	FV-M	FSs	YES
BA3472Y/ BA3472W	2	3 to 36	4	10/7.5	100	30	V_{EE} to V_{CC}−2.0	V_{EE}+0.3 to V_{CC}−1.0	100	97	97	10	4	—	−40 to +125	SOP8/—	F-C	FSs	YES
																SSOP-B8	FV-C		YES
																MSOP8/—	FVM-C		YES
BA3474Y/ BA3474W	4	3 to 36	8	10/7.5	100	30	V_{EE} to V_{CC}−2.0	V_{EE}+0.3 to V_{CC}−1.0	100	97	97	10	4	—	−40 to +125	SSOP-B14	FV-C	FSs	YES
																			YES

Rail-to-Rail Input/Output General Purpose Operational Amplifiers

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/µs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix
BD7541/ BD7541S	1	5.0 to 14.5	0.18	9	0.001	4	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.3	0.6	—	−40 to +85/ −40 to +105	SSOP5	G
BD7542/ BD7542S	2	5.0 to 14.5	0.4	9	0.001	4	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.3	0.6	—	−40 to +85/ −40 to +105	SOP8	F
																MSOP8	FVM
BD7561/ BD7561S	1	5.0 to 14.5	0.44	9	0.001	8	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.9	1	—	−40 to +85/ −40 to +105	SSOP5	G
BD7562/ BD7562S	2	5.0 to 14.5	0.9	9	0.001	8	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	0.9	1	—	−40 to +85/ −40 to +105	SOP8	F
																MSOP8	FVM
BU7255/ BU7255S	1	2.4 to 5.5	0.54	9	0.001	4	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	105	60	80	3.4	4	—	−40 to +85/ −40 to +105	HVSOF5	HFV
BU7261/ BU7261S	1	1.8 to 5.5	0.25	9	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	1.1	2	—	−40 to +85/ −40 to +105	SSOP5	G
BU7262/ BU7262S	2	1.8 to 5.5	0.55	9	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	1.1	2	—	−40 to +85/ −40 to +105	SOP8	F
																MSOP8	FVM
																VSON008X2030	NUX
BU7264/ BU7264S	4	1.8 to 5.5	1.1	9	0.001	10	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	1.1	2	—	−40 to +85/ −40 to +105	SOP14	F
																SSOP-B14	FV
BU7291/ BU7291S	1	2.4 to 5.5	0.47	9	0.001	8	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	105	60	80	3	2.8	—	−40 to +85/ −40 to +105	SSOP5	G
BU7294/ BU7294S	4	2.4 to 5.5	2	9	0.001	8	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	105	60	80	3	2.8	—	−40 to +85/ −40 to +105	SOP14	F
																SSOP-B14	FV
BU7295/ BU7295S	1	1.8 to 5.5	0.15	9	0.001	8	V_{SS} to V_{DD}	V_{SS}+0.1 to V_{DD}−0.1	95	60	80	1	1	—	−40 to +85/ −40 to +105	HVSOF5	HFV

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*1 For more information about "ComfySIL™ Functional Safety", please refer to the reverse side of the cover.

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General Purpose

General Purpose Operational Amplifiers

Part No.	ch	Supply Voltage (V)	Circuit Current (Typ) (mA)	Input Offset Voltage (Max) (mV)	Input Bias Current (Typ) (nA)	Output Current (Typ) (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (Typ) (dB)	CMRR (Typ) (dB)	PSRR (Typ) (dB)	Slew Rate (Typ) (V/μs)	GBW (Typ) (MHz)	Equivalent Input Noise Voltage (Typ) (nV/√Hz)	Operating temperature (°C)	Package	Part No. Suffix
LM2904	2	3 to 32	0.6	4.5	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.3	0.8	40	−40 to +125	SOP8	F
																SOP-J8	FJ
																SSOP-B8	FV
																TSSOP-B8J	FVJ
																MSOP8	FVM
																TSSOP-B8	FVT
LM2902	4	3 to 32	1	4.5	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.3	0.8	40	−40 to +125	SOP14	F
																SOP-J14	FJ
																SSOP-B14	FV
																TSSOP-B14J	FVJ
LM324	4	3 to 32	1	4.5	20	30	V_{EE} to $V_{CC}-1.5$	$V_{EE}+0.01$ to $V_{CC}-1.5$	100	80	100	0.3	0.8	40	−40 to +85	SOP14	F
																SOP-J14	FJ
																SSOP-B14	FV
																TSSOP-B14J	FVJ
LM358	2	3 to 32	0.6	4.5	20	30	V_{EE} to $V_{CC}-1.5$	$V_{EE}+0.01$ to $V_{CC}-1.5$	100	80	100	0.3	0.8	40	−40 to +85	SOP8	F
																SOP-J8	FJ
																SSOP-B8	FV
																TSSOP-B8J	FVJ
																MSOP8	FVM
																TSSOP-B8	FVT
LMR321	1	2.7 to 5.5	0.13	4	15	70	V_{EE} to $V_{CC}-0.8$	$V_{EE}+0.08$ to $V_{CC}-0.04$	110	90	90	1	3	39	−40 to +85	SSOP5	G
LMR324	4	2.7 to 5.5	0.41	9	15	70	V_{EE} to $V_{CC}-0.8$	$V_{EE}+0.08$ to $V_{CC}-0.04$	110	90	90	1	3	39	−40 to +85	SOP14	F
																SOP-J14	FJ
																SSOP-B14	FV
																TSSOP-B14J	FVJ
LMR342	2	2.7 to 5.5	0.2	4	0.001	24	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.06$ to $V_{DD}-0.06$	103	80	85	1	2	40	−40 to +85	SOP8	F
																SOP-J8	FJ
																SSOP-B8	FV
																TSSOP-B8J	FVJ
																MSOP8	FVM
																TSSOP-B8	FVT
LMR344	4	2.7 to 5.5	0.4	4	0.001	24	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.06$ to $V_{DD}-0.06$	103	80	85	1	2	40	−40 to +85	SOP14	F
																SOP-J14	FJ
																TSSOP-B14J	FVJ
LMR358	2	2.7 to 5.5	0.21	5	15	70	V_{EE} to $V_{CC}-0.8$	$V_{EE}+0.08$ to $V_{CC}-0.04$	110	90	90	1	3	39	−40 to +85	SOP8	F
																SOP-J8	FJ
																SSOP-B8	FV
																TSSOP-B8J	FVJ
																MSOP8	FVM
																TSSOP-B8	FVT
BU7461/ BU7461S	1	1.7 to 5.5	0.15	6	0.001	8	V_{SS} to $V_{DD}-1.2$	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	1	1	—	−40 to +85/ −40 to +105	SSOP5	G
BU7462/ BU7462S	2	1.7 to 5.5	0.3	6	0.001	8	V_{SS} to $V_{DD}-1.2$	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	1	1	—	−40 to +85/ −40 to +105	SOP8	F
																MSOP8	FVM
																VSON008X2030	NUX
BU7464/ BU7464S	4	1.7 to 5.5	0.6	6	0.001	8	V_{SS} to $V_{DD}-1.2$	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	1	1	—	−40 to +85/ −40 to +105	SOP14	F
BU7465/ BU7465S	1	1.7 to 5.5	0.12	6	0.001	8	V_{SS} to $V_{DD}-1.2$	$V_{SS}+0.1$ to $V_{DD}-0.1$	100	60	80	1	1.2	—	−40 to +85/ −40 to +105	HVSOF5	HFV
BU7481/ BU7481S	1	1.8 to 5.5	0.42	8	0.001	8	V_{SS} to $V_{DD}-1.2$	$V_{SS}+0.1$ to $V_{DD}-0.1$	105	60	80	3.2	2.8	—	−40 to +85/ −40 to +105	SSOP5	G
BU7495/ BU7495S	1	1.8 to 5.5	0.65	6	0.001	7	V_{SS} to $V_{DD}-1.2$	$V_{SS}+0.1$ to $V_{DD}-0.1$	100	60	80	5	4	38	−40 to +85/ −40 to +105	HVSOF5	HFV
BA3404	2	4 to 36	2	5	70	30	V_{EE} to $V_{CC}-2.0$	V_{EE} to $V_{CC}-2.0$	100	90	94	1.2	1.2	—	−40 to +85	SOP8	F
																MSOP8	FVM
BA3472	2	3 to 36	4	10	100	30	V_{EE} to $V_{CC}-2.0$	$V_{EE}+0.3$ to $V_{CC}-1.0$	100	97	97	10	4	—	−40 to +85	SOP8	F
																SSOP-B8	FV
																SOP-J8	FJ
																MSOP8	FVM
BA3472R															−40 to +105	MSOP8	FVM
BA3472Y															−40 to +125	SOP8	F-LB
BA3474	4	3 to 36	8	10	100	30	V_{EE} to $V_{CC}-2.0$	$V_{EE}+0.3$ to $V_{CC}-1.0$	100	97	97	10	4	—	−40 to +75	SOP14	F
															−40 to +85	SSOP-B14	FV
																TSSOP-B14J	FVJ
BA3474R															−40 to +105	SSOP-B14	FV
BD1321	1	2.7 to 5.5	0.13	4	15	70	V_{EE} to $V_{CC}-0.8$	$V_{EE}+0.08$ to $V_{CC}-0.04$	110	90	90	1	3	—	−40 to +85	SSOP5	G
BA2902/ BA2902S	4	3 to 36	0.7	7	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	40	−40 to +125/ −40 to +105	SOP14	F
																SSOP-B14	FV
BA2902Y	4	3 to 36	0.7	7	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	40	−40 to +125	SOP14	F-LB
BA2904/ BA2904S	2	3 to 36	0.5	7	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	40	−40 to +125/ −40 to +105	SOP8	F
																SSOP-B8	FV
																MSOP8	FVM
BA2904Y	2	3 to 36	0.5	7	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.2	0.5	40	−40 to +125	SOP8	F-LB

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Comparators

Standard

Open-Collector Comparators

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (µs)	Operating Temperature (°C)	Package	Part No. Suffix
New LM8391	1	3 to 36	0.3	2 (Max: 5)	50	16	V_{EE} to V_{CC}−1.5	120	1.3	−40 to +125	SSOP5	G-LB
LM2903	2	3 to 32	0.6	1	50	16	V_{EE} to V_{CC}−1.5	120	1	−40 to +125	SOP8	F
											SOP-J8	FJ
											SSOP-B8	FV
											TSSOP-B8J	FVJ
											MSOP8	FVM
											TSSOP-B8	FVT
LM2901	4	3 to 32	1.2	1	50	16	V_{EE} to V_{CC}−1.5	120	1	−40 to +125	SOP14	F
											SOP-J14	FJ
											SSOP-B14	FV
											TSSOP-B14J	FVJ
LM393	2	3 to 32	0.6	1	50	16	V_{EE} to V_{CC}−1.5	120	1	−40 to +85	SOP8	F
											SOP-J8	FJ
											SSOP-B8	FV
											TSSOP-B8J	FVJ
											MSOP8	FVM
											TSSOP-B8	FVT
LM339	4	3 to 32	1.2	1	50	16	V_{EE} to V_{CC}−1.5	120	1	−40 to +85	SOP14	F
											SOP-J14	FJ
											SSOP-B14	FV
											TSSOP-B14J	FVJ
BA2903Y	2	2 to 36	0.6	2	50	16	V_{EE} to V_{CC}−1.5	100	1.3	−40 to +125	SOP8	F-LB
BA2901Y	4	2 to 36	0.8	2	50	16	V_{EE} to V_{CC}−1.5	100	1.3	−40 to +125	SOP14	F-LB
BA2903/ BA2903S	2	2 to 36	0.6	2	50	16	V_{EE} to V_{CC}−1.5	100	1.3	−40 to +125/ −40 to +105	SOP8	F
											SSOP-B8	FV
											MSOP8	FVM
BA2901/ BA2901S	4	2 to 36	0.8	2	50	16	V_{EE} to V_{CC}−1.5	100	1.3	−40 to +125/ −40 to +105	SOP14	F
											SSOP-B14	FV
BA8391	1	2 to 36	0.3	2	50	16	V_{EE} to V_{CC}−1.5	100	1.3	−40 to +85	SSOP5	G

Automotive Open-Collector Comparators

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (µs)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BA2903Y	2	2 to 36	0.6	2 (Max: 4)	50	16	V_{EE} to V_{CC}−1.5	100	1.3	−40 to +125	SOP8	F-C	FSs	YES
											SSOP-B8	FV-C	FSs	YES
											MSOP8	FVM-C	FSs	YES
BA2901Y	4	2 to 36	0.8	2 (Max: 4)	50	16	V_{EE} to V_{CC}−1.5	100	1.3	−40 to +125	SOP14	F-C	FSs	YES
											SSOP-B14	FV-C	FSs	YES
BA2903Y	2	2 to 36	0.6	2 (Max: 7)	50	16	V_{EE} to V_{CC}−1.5	100	1.3	−40 to +125	SOP8	F-M	FSs	YES
											SSOP-B8	FV-M	FSs	YES
											MSOP8	FVM-M	FSs	YES
BA2901Y	4	2 to 36	0.8	2 (Max: 7)	50	16	V_{EE} to V_{CC}−1.5	100	1.3	−40 to +125	SOP14	F-M	FSs	YES
											SSOP-B14	FV-M	FSs	YES

Automotive Excellent EMI Immunity Open-Collector Comparators (EMARMOUR™ series)

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (µs)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
New LM8391EY	1	3 to 36	0.3	2 (Max: 5)	50	16	V_{EE} to V_{CC}−1.5	120	1.3	−40 to +150	SSOP5	G-C	FSs	YES
LM2903EY	2	3 to 32	0.6	2	50	16	V_{EE} to V_{CC}−1.5	120	1.3	−40 to +150	SOP-J8	FJ-C	FSs	YES
LM2901EY	4	3 to 32	1.2	2	50	16	V_{EE} to V_{CC}−1.5	120	1.3	−40 to +150	SSOP-B14	FV-C	FSs	YES
BA82903Y	2	2 to 36	0.6	2	50	16	V_{EE} to V_{CC}−1.5	100	1.3	−40 to +125	SOP8	F-C	FSs	YES
											MSOP8	FVM-C	FSs	YES
BA82901Y	4	2 to 36	0.8	2	50	16	V_{EE} to V_{CC}−1.5	100	1.3	−40 to +125	SOP14	F-C	FSs	YES
											SSOP-B14	FV-C	FSs	YES

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High Speed

Push-Pull Comparators

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix
BU7251/ BU7251S	1	1.8 to 5.5	15	1	0.001	6	V_{SS} to V_{DD}	90	0.55	−40 to +85/ −40 to +105	SSOP5	G
BU7252/ BU7252S	2	1.8 to 5.5	35	1	0.001	6	V_{SS} to V_{DD}	90	0.55	−40 to +85/ −40 to +105	SOP8	F
											MSOP8	FVM
BU5265/ BU5265S	1	1.8 to 5.5	22	1	0.001	3.5	V_{SS} to V_{DD}	90	0.5	−40 to +85/ −40 to +105	HVSOF5	HFV

Open-Drain Comparators

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix
BU7250/ BU7250S	1	1.8 to 5.5	15	1	0.001	6	V_{SS} to V_{DD}	90	0.75	−40 to +85/ −40 to +105	SSOP5	G
BU7253/ BU7253S	2	1.8 to 5.5	35	1	0.001	6	V_{SS} to V_{DD}	90	0.75	−40 to +85/ −40 to +105	SOP8	F

Low Power Consumption

Push-Pull Comparators

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix
BU7231/ BU7231S	1	1.8 to 5.5	5	1	0.001	6	V_{SS} to V_{DD}	90	1.7	−40 to +85/ −40 to +105	SSOP5	G
BU7232/ BU7232S	2	1.8 to 5.5	10	1	0.001	6	V_{SS} to V_{DD}	90	1.7	−40 to +85/ −40 to +105	SOP8	F
											MSOP8	FVM
BU5255/ BU5255S	1	1.8 to 5.5	6.5	1	0.001	3.5	V_{SS} to V_{DD}	90	1.6	−40 to +85/ −40 to +105	HVSOF5	HFV

Automotive Push-Pull Comparator

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BU7232Y	2	1.8 to 5.5	10	1	0.001	7	V_{SS} to V_{DD}	100	1.7	−40 to +125	MSOP8	FVM-C	FSs	YES

Open-Drain Comparators

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix
BU7230/ BU7230S	1	1.8 to 5.5	5	1	0.001	6	V_{SS} to V_{DD}	90	1.8	−40 to +85/ −40 to +105	SSOP5	G
BU7233/ BU7233S	2	1.8 to 5.5	10	1	0.001	6	V_{SS} to V_{DD}	90	1.8	−40 to +85/ −40 to +105	SOP8	F

Automotive Open-Drain Comparator

Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μs)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BU7233Y	2	1.8 to 5.5	10	1	0.001	7	V_{SS} to V_{DD}	100	1.8	−40 to +125	SOP8	F-C	FSs	YES

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