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Category Amplifiers & Linear

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Amplifiers & Linear

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Operational Amplifiers & Comparators

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Operational Amplifiers

Standard

Ground Sense Operational Amplifiers																
Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
BA2904/ BA2904S	2	3 to 36	0.5	2.0	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/ -40 to +105	SOP8	F
															SSOP-B8	FV
															MSOP8	FVM
BA2904Y	2	3 to 36	0.5	2.0	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-LB
BA2902/ BA2902S	4	3 to 36	0.7	2.0	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/ -40 to +105	SOP14	F
															SSOP-B14	FV
BA2902Y	4	3 to 36	0.7	2.0	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-LB
BA3404	2	4 to 36	2.0	2.0	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
LM2902	4	3 to 32	1.0	1.0	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.3	0.8	-40 to +125	SOP14	F
															SOP-J14	FJ
															SSOP-B14	FV
															TSSOP-B14J	FVJ
LM2904	2	3 to 32	0.6	1.0	20	30	V_{EE} to $V_{CC}-1.5$	V_{EE} to $V_{CC}-1.5$	100	80	100	0.3	0.8	-40 to +125	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8J	FVJ
															MSOP8	FVM
TSSOP-B8	FVT															
LM324	4	3 to 32	1.0	1.0	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 to +85	SOP14	F
															SOP-J14	FJ
															SSOP-B14	FV
LM358	2	3 to 32	0.6	1.0	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 to +85	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8J	FVJ
															MSOP8	FVM
TSSOP-B8	FVT															

Automotive Ground Sense Operational Amplifiers																		
Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BA2904Y	2	3 to 36	0.5	2.0 (Max: 3.5)	20 (Max: 60)	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
															SSOP-B8	FV-C	FSs	YES
															MSOP8	FVM-C	FSs	YES
BA2902Y	4	3 to 36	0.7	2.0 (Max: 3.8)	20 (Max: 60)	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
															SSOP-B14	FV-C	FSs	YES
BA2904Y	2	3 to 36	0.5	2.0 (Max: 7.0)	20 (Max: 250)	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-M	FSs	YES
															SSOP-B8	FV-M	FSs	YES
															MSOP8	FVM-M	FSs	YES
BA2902Y	4	3 to 36	0.7	2.0 (Max: 7.0)	20 (Max: 250)	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-M	FSs	YES
														SSOP-B14	FV-M	FSs	YES	

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Standard

Automotive Excellent EMI Immunity Ground Sense Operational Amplifiers (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)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
LM2904EY	2	3 to 36	0.6	2.0	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
BA82904Y	2	3 to 36	0.5	2.0	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
BA82902Y	4	3 to 36	0.7	2.0	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

Automotive Excellent EMI Immunity Input-Output Rail-to-Rail Operational Amplifiers (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)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BD87581Y	1	4 to 14	2.3	1	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
BD87582Y	2	4 to 14	5	1	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
BD87584Y	4	4 to 14	10	1	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
New BD87554Y	4	4 to 15	7.9	1	0.001	9.3	V_{SS} to V_{DD}	$V_{SS+0.03}$ to $V_{DD-0.05}$	110	80	90	2.4	2	-40 to +125	SSOP-B14	FV-C	FSs	YES

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High Speed

Input-Output Rail-to-Rail Operational Amplifiers																		
Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix		
BU7261/ BU7261S	1	1.8 to 5.5	250	1.0	0.001	10	V_{SS} to V_{DD}	$V_{SS+0.1}$ to $V_{DD-0.1}$	95	60	80	1.1	2.0	-40 to +85/ -40 to +105	SSOP5	G		
BU7262/ BU7262S	2	1.8 to 5.5	550	1.0	0.001	10	V_{SS} to V_{DD}	$V_{SS+0.1}$ to $V_{DD-0.1}$	95	60	80	1.1	2.0	-40 to +85/ -40 to +105	SOP8	F		
															MSOP8	FVM		
															VSON008X2030	NUX		
BU7264/ BU7264S	4	1.8 to 5.5	1,100	1.0	0.001	10	V_{SS} to V_{DD}	$V_{SS+0.1}$ to $V_{DD-0.1}$	95	60	80	1.1	2.0	-40 to +85/ -40 to +105	SOP14	F		
BU7291/ BU7291S	1	2.4 to 5.5	470	1.0	0.001	8	V_{SS} to V_{DD}	$V_{SS+0.1}$ to $V_{DD-0.1}$	105	60	80	3.0	2.8	-40 to +85/ -40 to +105	SSOP5	G		
BU7294/ BU7294S	4	2.4 to 5.5	2,000	1.0	0.001	8	V_{SS} to V_{DD}	$V_{SS+0.1}$ to $V_{DD-0.1}$	105	60	80	3.0	2.8	-40 to +85/ -40 to +105	SOP14	F		
BU7295/ BU7295S	1	1.8 to 5.5	150	1.0	0.001	8	V_{SS} to V_{DD}	$V_{SS+0.1}$ to $V_{DD-0.1}$	95	60	80	1.0	1.0	-40 to +85/ -40 to +105	HVSOF5	HFV		
BU7255/ BU7255S	1	2.4 to 5.5	540	1.0	0.001	4	V_{SS} to V_{DD}	$V_{SS+0.1}$ to $V_{DD-0.1}$	105	60	80	3.4	4.0	-40 to +85/ -40 to +105	HVSOF5	HFV		
BD7561/ BD7561S	1	5.0 to 14.5	440	1.0	0.001	8	V_{SS} to V_{DD}	$V_{SS+0.1}$ to $V_{DD-0.1}$	95	60	80	0.9	1.0	-40 to +85/ -40 to +105	SSOP5	G		
BD7562/ BD7562S	2	5.0 to 14.5	900	1.0	0.001	8	V_{SS} to V_{DD}	$V_{SS+0.1}$ to $V_{DD-0.1}$	95	60	80	0.9	1.0	-40 to +85/ -40 to +105	SOP8	F		
															MSOP8	FVM		

Automotive Input-Output Rail-to-Rail Operational Amplifiers																		
Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix		
BU7264Y	4	1.8 to 5.5	1,100	1.0	0.001	10	V_{SS} to V_{DD}	$V_{SS+0.1}$ to $V_{DD-0.1}$	95	60	80	1.1	2.0	-40 to +125	SSOP-B14	FV-C		

Ground Sense Operational Amplifiers																		
Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix		
BA3472	2	3 to 36	4.0	1.0	100	30	V_{EE} to $V_{CC-2.0}$	$V_{EE+0.3}$ to $V_{CC-1.0}$	100	97	97	10.0	4.0	-40 to +85	SOP8	F		
															SSOP-B8	FV		
															SOP-J8	FJ		
BA3472R														MSOP8	FVM			
BA3472Y																		
BA3474	4	3 to 36	8.0	1.0	100	30	V_{EE} to $V_{CC-2.0}$	$V_{EE+0.3}$ to $V_{CC-1.0}$	100	97	97	10.0	4.0	-40 to +85	SOP8	F-LB		
															SOP14	F		
															SSOP-B14	FV		
															TSSOP-B14J	FVJ		
BA3474R														SSOP-B14	FV			
BU7461/ BU7461S	1	1.7 to 5.5	0.15	1.0	0.001	8	V_{SS} to $V_{DD-1.2}$	$V_{SS+0.1}$ to $V_{DD-0.1}$	95	60	80	1.0	1.0	-40 to +85/ -40 to +105	SSOP5	G		
BU7462/ BU7462S	2	1.7 to 5.5	0.3	1.0	0.001	8	V_{SS} to $V_{DD-1.2}$	$V_{SS+0.1}$ to $V_{DD-0.1}$	95	60	80	1.0	1.0	-40 to +85/ -40 to +105	SOP8	F		
															MSOP8	FVM		
															VSON008X2030	NUX		
BU7464/ BU7464S	4	1.7 to 5.5	0.6	1.0	0.001	8	V_{SS} to $V_{DD-1.2}$	$V_{SS+0.1}$ to $V_{DD-0.1}$	95	60	80	1.0	1.0	-40 to +85/ -40 to +105	SOP14	F		
BU7465/ BU7465S	1	1.7 to 5.5	0.12	1.0	0.001	8	V_{SS} to $V_{DD-1.2}$	$V_{SS+0.1}$ to $V_{DD-0.1}$	100	60	80	1.0	1.2	-40 to +85/ -40 to +105	HVSOF5	HFV		
BU7481/ BU7481S	1	1.8 to 5.5	0.42	1.0	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		
BU7485/ BU7485S	1	3.0 to 5.5	1.5	1.0	0.001	8	V_{SS} to $V_{DD-1.4}$	$V_{SS+0.1}$ to $V_{DD-0.1}$	105	60	80	10.0	10.0	-40 to +85/ -40 to +105	SSOP5	G		
BU7486/ BU7486S	2	3.0 to 5.5	3.0	1.0	0.001	8	V_{SS} to $V_{DD-1.4}$	$V_{SS+0.1}$ to $V_{DD-0.1}$	105	60	80	10.0	10.0	-40 to +85/ -40 to +105	SOP8	F		
															SSOP-B8	FV		
															MSOP8	FVM		
BU7487/ BU7487S	4	3.0 to 5.5	6.0	1.0	0.001	8	V_{SS} to $V_{DD-1.4}$	$V_{SS+0.1}$ to $V_{DD-0.1}$	105	60	80	10.0	10.0	-40 to +85/ -40 to +105	SOP14	F		
															SSOP-B14	FV		
BU7495/ BU7495S	1	1.8 to 5.5	0.65	1.0	0.001	7	V_{SS} to $V_{DD-1.2}$	$V_{SS+0.1}$ to $V_{DD-0.1}$	100	60	80	5.0	4.0	-40 to +85/ -40 to +105	HVSOF5	HFV		

Automotive Ground Sense Operational Amplifiers																		
Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/ μ s)	Gain Bandwidth Product (MHz)	Operating Temperature ($^{\circ}$ C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BA3472Y/ BA3472W	2	3 to 36	4.0	1.0 (Max: 10.0)/ 1.0 (Max: 7.5)	100	30	V_{EE} to $V_{CC}-2.0$	$V_{EE}+0.3$ to $V_{CC}-1.0$	100	97	97	10	4.0	-40 to +125	SOP8/-	F-C	FSs	YES
															SSOP-B8	FV-C		YES
															MSOP8/-	FVM-C		YES
BA3474Y/ BA3474W	4	3 to 36	8.0	1.0 (Max: 10.0)/ 1.0 (Max: 7.5)	100	30	V_{EE} to $V_{CC}-2.0$	$V_{EE}+0.3$ to $V_{CC}-1.0$	100	97	97	10	4.0	-40 to +125	SSOP-B14	FV-C	-/FSs	YES
															SSOP-B14			YES

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Low Power Consumption

Input-Output Rail-to-Rail Operational Amplifiers																	
Part No.	ch	Supply Voltage (V)	Circuit Current (μ A)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/ μ s)	Gain Bandwidth Product (MHz)	Operating Temperature ($^{\circ}$ C)	Package	Part No. Suffix	
BU7205/ BU7205S	1	1.8 to 5.5	0.4	1.0	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	
BU7241/ BU7241S	1	1.8 to 5.5	70	1.0	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	1.0	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	1.0	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	
BU7245/ BU7245S	1	1.8 to 5.5	5	1.0	0.001	4	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	95	60	80	0.035	0.09	-40 to +85/ -40 to +105	HVSOF5	HFV	
BU7265/ BU7265S	1	1.8 to 5.5	0.35	1.0	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	1.0	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	
BU7271/ BU7271S	1	1.8 to 5.5	8.6	1.0	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	1.0	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	
BD12730	1	1.8 to 5.5	320	1.0	50	5	GND to V_{+}	0.1 to $V_{+}-0.1$	85	70	85	0.4	1.0	-40 to +85	SSOP5	G	
BD12732	2	1.8 to 5.5	580	1.0	50	5	GND to V_{+}	0.1 to $V_{+}-0.1$	85	70	85	0.4	1.0	-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	1,200	1.0	50	5	GND to V_{+}	0.1 to $V_{+}-0.1$	85	70	85	0.4	1.0	-40 to +85	SOP14	F	
															SOP-J14	FJ	
															SSOP-B14	FV	
															TSSOP-B14J	FVJ	
BD7541/ BD7541S	1	5.0 to 14.5	180	1.0	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	400	1.0	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	
LMR931	1	1.8 to 5.0	80	1.0	5	28	V_{SS} to V_{DD}	$V_{SS}+0.04$ to $V_{DD}-0.05$	100	94	85	0.4	1.4	-40 to +85	SSOP5	G	
LMR932	2	1.8 to 5.0	135	1.0	5	28	V_{SS} to V_{DD}	$V_{SS}+0.04$ to $V_{DD}-0.05$	100	94	85	0.4	1.4	-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	250	1.0	5	28	V_{SS} to V_{DD}	$V_{SS}+0.04$ to $V_{DD}-0.05$	100	94	85	0.4	1.4	-40 to +85	SOP14	F	
															SOP-J14	FJ	
															SSOP-B14	FV	
															TSSOP-B14J	FVJ	
LMR981	1	1.8 to 5.0	80	1.0	5	28	V_{SS} to V_{DD}	$V_{SS}+0.04$ to $V_{DD}-0.05$	100	94	85	0.4	1.4	-40 to +85	SSOP6	G	
LMR982	2	1.8 to 5.0	135	1.0	5	28	V_{SS} to V_{DD}	$V_{SS}+0.04$ to $V_{DD}-0.05$	100	94	85	0.4	1.4	-40 to +85	MSOP10	FVM	

Low Power Consumption

Ground Sense Operational Amplifiers																
Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
BU7411/ BU7411S	1	1.6 to 5.5	0.35	1.0	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	1.0	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
BU7441/ BU7441S	1	1.7 to 5.5	50	1.0	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	1.0	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	1.0	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
BU7445/ BU7445S	1	1.7 to 5.5	40	1.0	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
BU7475/ BU7475S	1	1.7 to 5.5	9	1.0	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
BD1321	1	2.7 to 5.5	130	0.1	15	70	V_{EE} to $V_{CC}-0.8$	$V_{EE}+0.08$ to $V_{CC}-0.04$	110	90	90	1.0	3.0	-40 to +85	SSOP5	G
LMR321	1	2.7 to 5.5	130	0.1	15	70	V_{EE} to $V_{CC}-0.8$	$V_{EE}+0.08$ to $V_{CC}-0.04$	110	90	90	1.0	3.0	-40 to +85	SSOP5	G
LMR324	4	2.7 to 5.5	410	1.0	15	70	V_{EE} to $V_{CC}-0.8$	$V_{EE}+0.08$ to $V_{CC}-0.04$	110	90	90	1.0	3.0	-40 to +85	SOP14	F
															SOP-J14	FJ
															SSOP-B14	FV
															TSSOP-B14J	FWJ
LMR341	1	2.7 to 5.5	100	0.25	0.001	24	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.06$ to $V_{DD}-0.06$	103	80	85	1.0	2.0	-40 to +85	SSOP6	G
LMR342	2	2.7 to 5.5	200	0.25	0.001	24	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.06$ to $V_{DD}-0.06$	103	80	85	1.0	2.0	-40 to +85	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8J	FWJ
															MSOP8	FVM
TSSOP-B8	FVT															
LMR344	4	2.7 to 5.5	400	0.25	0.001	24	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.06$ to $V_{DD}-0.06$	103	80	85	1.0	2.0	-40 to +85	SOP14	F
															SOP-J14	FJ
															TSSOP-B14J	FWJ
LMR358	2	2.7 to 5.5	210	0.1	15	70	V_{EE} to $V_{CC}-0.8$	$V_{EE}+0.08$ to $V_{CC}-0.04$	110	90	90	1.0	3.0	-40 to +85	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8J	FWJ
															MSOP8	FVM
TSSOP-B8	FVT															
LMR821	1	2.5 to 5.5	280	1.0	30	16	V_{SS} to $V_{DD}-0.9$	$V_{SS}+0.12$ to $V_{DD}-0.1$	100	85	85	2.0	5.0	-40 to +85	SSOP5	G
LMR822	2	2.5 to 5.5	560	1.0	30	16	V_{SS} to $V_{DD}-0.9$	$V_{SS}+0.12$ to $V_{DD}-0.1$	100	85	85	2.0	5.0	-40 to +85	SOP8	F
															SOP-J8	FJ
															SSOP-B8	FV
															TSSOP-B8J	FWJ
															MSOP8	FVM
TSSOP-B8	FVT															
LMR824	4	2.5 to 5.5	1,120	1.0	30	16	V_{SS} to $V_{DD}-0.9$	$V_{SS}+0.12$ to $V_{DD}-0.1$	100	85	85	2.0	5.0	-40 to +85	SOP14	F
TSSOP-B14J	FWJ															
TSSOP-B14J	FWJ															
TLR341	1	1.8 to 5.5	70	0.3	0.001	8	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.055$ to $V_{DD}-0.05$	100	90	95	1.2	2.2	-40 to +85	SSOP6	G
TLR342	2	1.8 to 5.5	150	0.3	0.001	8	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.055$ to $V_{DD}-0.05$	100	85	95	1.0	1.2	-40 to +85	SOP8	F
															SOP-J8	FJ
															TSSOP-B8J	FWJ
															TSSOP-B8	FVT
TLR344	4	1.8 to 5.5	300	0.3	0.001	8	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.055$ to $V_{DD}-0.05$	100	90	95	1.2	2.2	-40 to +85	SOP14	F
															SOP-J14	FJ
															TSSOP-B14J	FWJ

Automotive Input-Output Rail-to-Rail Operational Amplifiers																		
Part No.	ch	Supply Voltage (V)	Circuit Current (μA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BU7241Y	1	1.8 to 5.5	70	1.0	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	1.0	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	1.0	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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*1 For more information about "ComfySIL™ Functional Safety", please refer to the reverse side of the cover.

Low Noise

Output Rail-to-Rail Operational Amplifiers																		
Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Input Referred Noise Voltage (μ Vrms)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/ μ s)	Gain Bandwidth Product (MHz)	Operating Temperature ($^{\circ}$ C)	Package	Part No. Suffix		
BA4510	2	± 1 to ± 3.5	5.0	1.0	80	0.7	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+0.1$ to $V_{CC}-0.1$	90	80	80	5.0	10.0	-20 to +75	SOP8	F		
														-40 to +75	SSOP-B8	FV		
BA2107	1	± 1 to ± 7	1.8	1.0	150	0.9	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+0.1$ to $V_{CC}-0.1$	80	74	80	4.0	12.0	-40 to +85	MSOP8	FVM		
BA2115	2	± 1 to ± 7	3.5	1.0	150	0.9	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+0.1$ to $V_{CC}-0.1$	80	74	80	4.0	12.0	-40 to +85	SSOP5	G		
														-40 to +85	SOP8	F		
														-40 to +85	MSOP8	FVM		
Automotive Operational Amplifiers																		
Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Input Referred Noise Voltage (μ Vrms)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/ μ s)	Gain Bandwidth Product (MHz)	Operating Temperature ($^{\circ}$ C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
BA4558Y	2	± 4 to ± 15	3.0	0.5	60	1.8	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+1.0$ to $V_{CC}-1.0$	100	90	90	1.0	2.0	-40 to +105	SOP8	F-M	FSs	YES
															SSOP-B8	FV-M	FSs	YES
															MSOP8	FVM-M	FSs	YES
BA4560Y	2	± 4 to ± 15	3.0	0.5	50	1.0	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+1.0$ to $V_{CC}-1.0$	100	90	90	4.0	4.0	-40 to +105	SOP8	F-M	FSs	YES
															SSOP-B8	FV-M	FSs	YES
															MSOP8	FVM-M	FSs	YES
BA4580Y	2	± 2 to ± 16	6.0	0.3	100	0.8	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+1.5$ to $V_{CC}-1.5$	110	110	110	5.0	10.0	-40 to +105	SOP8	F-M	FSs	YES
BA4584Y	4	± 2 to ± 16	11.0	0.3	100	0.8	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+1.5$ to $V_{CC}-1.5$	110	110	110	5.0	10.0	-40 to +105	MSOP8	FVM-M	FSs	YES
														-40 to +105	SSOP-B14	FV-M	FSs	YES
Dual Supply Voltage Operational Amplifiers																		
Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Input Referred Noise Voltage (μ Vrms)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/ μ s)	Gain Bandwidth Product (MHz)	Operating Temperature ($^{\circ}$ C)	Package	Part No. Suffix		
BA4558/ BA4558R	2	± 4 to ± 15	3.0	0.5	60	1.8	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+1.0$ to $V_{CC}-1.0$	100	90	90	1.0	2.0	-40 to +85/ -40 to +105	SOP8	F		
															SOP-J8	FJ		
															SSOP-B8	FV		
															MSOP8	FVM		
BA4560/ BA4560R	2	± 4 to ± 15	4.0	0.5	50	1.0	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+1.0$ to $V_{CC}-1.0$	100	90	90	4.0	10.0	-40 to +85/ -40 to +105	SOP8	F		
															SOP-J8	FJ		
															SSOP-B8	FV		
															MSOP8	FVM		
BA4564R	4	± 4 to ± 15	6.0	0.5	50	1.0	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+1.0$ to $V_{CC}-1.0$	100	90	90	4.0	4.0	-40 to +105	SSOP-B14	FV		
BA15218	2	± 2 to ± 16	5.0	0.5	50	1.0	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+2.0$ to $V_{CC}-2.0$	110	90	90	3.0	10.0	-40 to +85	SOP8	F		
BA14741	4	± 2 to ± 18	3.0	1.0	60	2.0	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+2.5$ to $V_{CC}-2.5$	100	100	100	1.0	2.0	-40 to +85	SOP14	F		
BA4580R	2	± 2 to ± 16	6.0	0.3	100	0.8	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+1.5$ to $V_{CC}-1.5$	110	110	110	5.0	5.0	-40 to +105	SOP8	F		
															SOP-J8	FJ		
															MSOP8	FVM		
															TSSOP-B8	FVT		
BA4584	4	± 2 to ± 16	12.0	0.3	100	0.8	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+1.5$ to $V_{CC}-1.5$	110	110	110	5.0	5.0	-40 to +85	SSOP-B14	FV		
BA4584R	4	± 2 to ± 9.5	11.0	0.3	100	0.8	$V_{EE}+1.5$ to $V_{CC}-1.5$	$V_{EE}+1.5$ to $V_{CC}-1.5$	110	110	110	5.0	5.0	-40 to +105	SOP14	F		
														-40 to +105	SSOP-B14	FV		
LM4559	2	± 4 to ± 18	3.3	0.5	40	0.7	$V_{EE}+2.0$ to $V_{CC}-2.0$	$V_{EE}+1.5$ to $V_{CC}-1.5$	110	100	100	3.5	4.0	-40 to +85	SOP8	F		
															SOP-J8	FJ		
															SSOP-B8	FV		
															TSSOP-B8	FVT		
															MSOP8	FVM		
LM4565	2	± 4 to ± 18	4.5	0.5	70	0.6	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+1.0$ to $V_{CC}-1.0$	100	100	100	5.0	10.0	-40 to +85	SOP8	F		
															SOP-J8	FJ		
															SSOP-B8	FV		
															TSSOP-B8	FVT		
															MSOP8	FVM		
													-40 to +85	TSSOP-B8J	FVJ			

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Low Offset Voltage

Dual Supply Voltage Operational Amplifier																
Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/ μ s)	Gain Bandwidth Product (MHz)	Operating Temperature ($^{\circ}$ C)	Package	Part No. Suffix
BA4564W	4	± 4 to ± 15	6.0	0.5	50	25	$V_{EE}+1.0$ to $V_{CC}-1.0$	$V_{EE}+1.0$ to $V_{CC}-1.0$	100	90	90	4.0	4.0	-40 to +105	SSOP-B14	FV
Input-Output Rail-to-Rail Operational Amplifier																
BD5291	1	1.7 to 5.5	0.65	0.1	0.001	6	V_{SS} to V_{DD}	$V_{SS}+0.1$ to $V_{DD}-0.1$	110	90	90	2.5	3.2	-40 to +85	SSOP5	G
														-40 to +85	VSOF5	FVE

High Performance

Ultra Low Noise Ground Sense Operational Amplifiers																	
Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (μ V)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/ μ s)	Gain Bandwidth Product (MHz)	Input Referred Noise Voltage (nV/ \sqrt Hz)	Operating Temperature ($^{\circ}$ C)	Package	Part No. Suffix
LMR1801	1	2.2 to 5.5	0.95	5 (Max: 900)	0.0005	3.5	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.05$ to $V_{DD}-0.05$	140	100	125	2.5	6.0	5.0	-40 to +125	SSOP5	G-LB
LMR1802	1	2.5 to 5.5	1.1	5 (Max: 450)	0.0005	3.5	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.05$ to $V_{DD}-0.05$	140	105	125	1.1	3.0	2.9	-40 to +125	HVSOF5	HFV-LB
LMR1803	1	2.2 to 5.5	1.0	5 (Max: 150)	0.0005	3.5	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.05$ to $V_{DD}-0.05$	140	100	110	2.5	6.0	5.0	-40 to +125	SSOP5	G-LB
High Precision and Input/Output Rail-to-Rail CMOS Operational Amplifier																	
Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (μ V)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/ μ s)	Gain Bandwidth Product (MHz)	Operating Temperature ($^{\circ}$ C)	Package	Part No. Suffix	
New TLR377	1	2.5 to 5.5	0.585	1.7 (Max: 1500)	0.0005	50	V_{SS} to V_{DD}	$V_{SS}+0.015$ to $V_{DD}-0.025$	137	100	95	2	4	-40 to +125	HVSOF5	HFV-LB	

High Performance

High Speed Ground Sense Operational Amplifier

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
LMR1701	1	2.7 to 5.5	9.6	1	0.0026	200	V_{SS} to $V_{DD}-0.9$	$V_{SS}+0.1$ to $V_{DD}-0.1$	120	80	86	80	150	-40 to +125	SSOP6	G-LB

Excellent EMI Immunity High Speed Ground Sense Operational Amplifiers (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)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix
Nano BD77501	1	7 to 15	1.3	4	0.001	7.5	V_{SS} to $V_{DD}-2.0$	$V_{SS}+0.25$ to $V_{DD}-0.25$	75	70	70	10	8	-40 to +85	SSOP5	G
Nano BD77502	2	7 to 15	2.6	4	0.001	7.5	V_{SS} to $V_{DD}-2.0$	$V_{SS}+0.25$ to $V_{DD}-0.25$	75	70	70	10	8	-40 to +85	MSOP8	FVM
Nano BD77504	4	7 to 15	5.2	4	0.001	7.5	V_{SS} to $V_{DD}-2.0$	$V_{SS}+0.25$ to $V_{DD}-0.25$	75	70	70	10	8	-40 to +85	SSOP-B14	FV

Automotive Ultra Low Noise Ground Sense Operational Amplifiers

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (μV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Input Referred Noise Voltage (nV/√Hz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
LMR1801Y	1	2.2 to 5.5	0.95	5 (Max: 950)	0.0005	3.5	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.05$ to $V_{DD}-0.05$	140	100	110	2.5	6.0	5	-40 to +125	SSOP5	G-C	FSs	YES
LMR1802Y	1	2.5 to 5.5	1.1	5 (Max: 450)	0.0005	3.5	V_{SS} to $V_{DD}-1.0$	$V_{SS}+0.05$ to $V_{DD}-0.05$	140	105	125	1.1	4.4	2.9	-40 to +125	SSOP5	G-C	FSs	YES
New LMR1803Y	1	2.2 to 5.5	1	5 (Max: 150)	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

Automotive Low Noise Input/Output Rail-to-Rail High Speed Operational Amplifier

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Input Referred Noise Voltage (nV/√Hz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
Nano BD7281Y	1	2.2 to 5.5	1.7	0.01 (Max: 2)	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

Automotive High Precision & Input/Output Rail-to-Rail CMOS Operational Amplifiers

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (μV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
TLR376Y	1	2.5 to 5.5	0.645	1.7 (Max: 550)	0.0005	50	V_{SS} to V_{DD}	$V_{SS}+0.015$ to $V_{DD}-0.025$	137	100	95	2	4	-40 to +125	SSOP5	G-C	FSs	YES
TLR377Y	1	2.5 to 5.5	0.645	1.7 (Max: 1300)	0.0005	50	V_{SS} to V_{DD}	$V_{SS}+0.015$ to $V_{DD}-0.025$	137	100	95	2	4	-40 to +125	SSOP5	G-C	FSs	YES
TLR2376Y	2	2.5 to 5.5	1.245	1.7 (Max: 550)	0.0005	50	V_{SS} to V_{DD}	$V_{SS}+0.015$ to $V_{DD}-0.025$	137	100	95	2	4	-40 to +125	MSOP8	FVM-C	FSs	YES
TLR2377Y	2	2.5 to 5.5	1.245	1.7 (Max: 1300)	0.0005	50	V_{SS} to V_{DD}	$V_{SS}+0.015$ to $V_{DD}-0.025$	137	100	95	2	4	-40 to +125	SOP-J8	FJ-C	FSs	YES
New TLR4376Y	4	2.5 to 5.5	2.49	1.7 (Max: 550)	0.0005	50	V_{SS} to V_{DD}	$V_{SS}+0.015$ to $V_{DD}-0.025$	137	100	95	2	4	-40 to +125	MSOP8	FVM-C	FSs	YES
New TLR4377Y	4	2.5 to 5.5	2.49	1.7 (Max: 1300)	0.0005	50	V_{SS} to V_{DD}	$V_{SS}+0.015$ to $V_{DD}-0.025$	137	100	95	2	4	-40 to +125	SOP-J8	FJ-C	FSs	YES

Automotive High Speed Ground Sense Operational Amplifier

Part No.	ch	Supply Voltage (V)	Circuit Current (mA)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Output Voltage (V)	Voltage Gain (dB)	CMRR (dB)	PSRR (dB)	Slew Rate (V/μs)	Gain Bandwidth Product (MHz)	Operating Temperature (°C)	Package	Part No. Suffix	Automotive Grade AEC-Q100
LMR1701Y	1	2.7 to 5.5	9.6	1	0.0026	200	V_{SS} to $V_{DD}-0.9$	$V_{SS}+0.1$ to $V_{DD}-0.1$	120	80	86	80	150	-40 to +125	SSOP6	G-C	YES

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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
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 SSOP-B14	F FV
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 SSOP-B8 MSOP8	F FV FVM
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
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
LM2901	4	3 to 32	1.2	1	50	16	V_{EE} to $V_{CC}-1.5$	120	1.0	-40 to +125	SOP14	F
											SOP-J14	FJ
											SSOP-B14	FV
											TSSOP-B14J	FVJ
LM2903	2	3 to 32	0.6	1	50	16	V_{EE} to $V_{CC}-1.5$	120	1.0	-40 to +125	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	1.0	-40 to +85	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	1.0	-40 to +85	SOP8	F
											SOP-J8	FJ
											SSOP-B8	FV
											TSSOP-B8J	FVJ
											MSOP8	FVM
TSSOP-B8	FVT											

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 (μ s)	Operating Temperature ($^{\circ}$ 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
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	MSOP8	FVM-C	FSs	YES
											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
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	MSOP8	FVM-M	FSs	YES
											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 (μ s)	Operating Temperature ($^{\circ}$ C)	Package	Part No. Suffix	ComfySIL™ Functional Safety*1	Automotive Grade AEC-Q100
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
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
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

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High Speed

Push-Pull Comparators												
Part No.	ch	Supply Voltage (V)	Circuit Current (μ A)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μ s)	Operating Temperature ($^{\circ}$ 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 (μ A)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μ s)	Operating Temperature ($^{\circ}$ 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 (μ A)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μ s)	Operating Temperature ($^{\circ}$ 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 (μ A)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μ s)	Operating Temperature ($^{\circ}$ 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 (μ A)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μ s)	Operating Temperature ($^{\circ}$ 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 (μ A)	Input Offset Voltage (mV)	Input Bias Current (nA)	Output Current (mA)	Input Voltage (V)	Voltage Gain (dB)	Response Time (μ s)	Operating Temperature ($^{\circ}$ 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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