



Automotive Products Selector Guide

SINGLE LINEAR VOLTAGE REGULATORS

Device	Output Voltage (V)	Tolerance (%)	Output Current	Dropout (Max)	Sleepmode Current (Max)	Quiescent Current [Max] @ Low Load (Load)	Enable	Reset (♦ = Adjustable)	Delay	Early Warning Flag/Monitor	Watchdog	Wakeup	Current Limit	Overvoltage	Overtemperature	Peak Transient (V)	Package(s)
NCV553	5	±3	80 mA	0.8 V	-	6 µA (1 mA)							♦	♦		12	SC-82
CS8101	5	±2	100 mA	0.6 V	50 µA	140 µA (100 µA)	♦	♦					♦	♦	♦	60	SOIC-8, SOIC-20 Fused
CS8221	5	±2	100 mA	0.6 V	-	120 µA (100 µA)							♦	♦	♦	74	SOIC-8 Fused, D2PAK-3
NCV317L	Adj	±4	100 mA	1.9 V (Typ)	-	-							♦		♦	40	SOIC-8, TO-92
NCV2931	Adj, 5	±5	100 mA	0.6 V	1 mA	1 mA (10 mA)	♦						♦	♦	♦	60	SOIC-8, DPAK-3, D2PAK-3
NCV2931A	Adj, 5	±3.8	100 mA	0.6 V	1 mA	1 mA (10 mA)	♦						♦	♦	♦	60	SOIC-8, SOT-223, DPAK-3
NCV2951	Adj, 5	±2.4	100 mA	0.45 V	-	120 µA (100 µA)	♦	♦					♦		♦	32	SOIC-8
NCV2951A	Adj, 3.3, 5	±1.5	100 mA	0.45 V	-	120 µA (100 µA)	♦	♦					♦		♦	32	SOIC-8
NCV4949A	5	±2	100 mA	0.5 V	-	260 µA (300 µA)		♦	♦	♦			♦		♦	40	SOIC-8, SOIC-8 ePad, SOIC-20
NCV612	1.5, 1.8, 2.5, 2.7, 2.8, 3.0, 3.1, 3.3, 5	±3	100 mA	0.3 V	1 µA	90 µA (1 mA)	♦						♦		♦	6	SC-70
NCV662	1.5, 1.8, 2.5, 2.7, 2.8, 3.0, 3.3, 5	±4	100 mA	0.3 V	1 µA	6 µA (1 mA)	♦						♦		♦	6	SC-82
NCV663	1.5, 1.8, 2.5, 2.7, 2.8, 3.0, 3.3, 5	±4	100 mA	0.3 V	-	6 µA (1 mA)							♦		♦	6	SC-82
NCV78LxxA	5, 8, 12, 15, 24	±4	100 mA	1.7 V (Typ)	-	-							♦		♦	30	SOIC-8, TO-92
NCV551	1.4, 1.5, 1.8, 2.5, 2.7, 2.8, 3.0, 3.1, 3.2, 3.3, 5	±3	150 mA	0.22 V	1 µA	8 µA (1 mA)	♦						♦		♦	12	TSOP-5
NCV4264	3.3, 5	±2	150 mA	0.5 V	-	400 µA (1 mA)							♦		♦	45	SOT-223, SOIC-8
NCV4264-2	3.3, 5	±2	150 mA	0.5 V	-	70 µA (100 µA)							♦		♦	45	SOT-223
NCV4269A	5	±2	150 mA	0.5 V	-	250 µA (1 mA)		♦♦	♦	♦			♦		♦	60	SOIC-8, SOIC-8 ePad, SOIC-14 Fused, SOIC-20 Fused
NCV4279A	5	±2	150 mA	0.5 V	-	250 µA (1 mA)		♦♦	♦	♦			♦		♦	60	SOIC-8, SOIC-14 Fused
NCV4299	3.3, 5	±2	150 mA	0.5 V	1 µA	105 µA (1 mA)	♦	♦♦	♦	♦			♦		♦	60	SOIC-8, SOIC-14 Fused
NCV571	0.8, 0.9, 1.0, 1.2	±4	150 mA	0.45 V	1 µA	8 µA (150 mA)	♦						♦	♦	♦		TSOP-5, DFN-6
NCV8501	Adj, 2.5, 3.3, 5, 8, 10	±2	150 mA	0.6 V	30 µA	75 µA (100 µA)	♦	♦	♦	♦			♦		♦	60	SOIC-8, SOIC-16 ePad

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SINGLE LINEAR VOLTAGE REGULATORS

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NCV8502	Adj, 2.5, 3.3, 5, 8, 10	±2	150 mA	0.6 V	-	75 µA (100 µA)		♦	♦	♦			♦	♦		60	SOIC-8, SOIC-16 ePad
NCV8512	5	±2	150 mA	0.6 V	-	200 µA (100 µA)		♦♦	♦	♦			♦	♦		60	SOIC-16 ePad
NCV8560	Adj., 1.3, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3, 3.5, 5	±2	150 mA	0.125 V	1 µA	180 µA (150 mA)	♦						♦	♦		6	DFN-6, TSOP-5
NCV8660B	3.3, 5	±2	150 mA	0.6 V	-	40 µA (150 mA)		♦	♦				♦	♦		40	SOIC-8 Fused, DPAK-5*
NCV8664	3.3, 5	±2	150 mA	0.6 V	-	30 µA (100 µA)							♦	♦		45	SOIC-8 Fused, SOT-223, DPAK-3
NCV8665	5	±2	150 mA	0.6 V	-	40 µA (100 µA)		♦	♦				♦	♦		45	D2PAK-5, SOIC-8 Fused
NVC8667	5	±2	150 mA	0.6 V	1 µA	50 µA (150 mA)	♦	♦	♦	♦			♦	♦		45	SOIC-14 Fused
NVC8668	3.3, 5	±2	150 mA	0.6 V	1 µA	44 µA (100 µA)	♦	♦	♦		♦		♦	♦		45	SOIC-8, SOIC-8 ePad, SOIC-14 Fused
NCV8669	5	±2	150 mA	0.6 V	-	50 µA (150 mA)		♦	♦	♦			♦	♦		45	SOIC-14 Fused
NCV8570	1.8, 2.5, 2.75, 2.8, 3.0, 3.3	±2	200 mA	0.155 V	1 µA	90 µA (1 mA)	♦						♦	♦		6	DFN-6
NCV8508	5	±3	250 mA	0.9 V	-	150 µA (150 mA)		♦	♦		♦	♦	♦	♦		60	SOIC-8 ePad, SOIC-16 Fused, D2PAK-7
NCV8508B	3.3, 5	±3	250 mA	0.9 V	-	150 µA (150 mA)		♦	♦		♦	♦	♦	♦		60	SOIC-8 ePad, D2PAK-7
NCV8518A	5	±2	250 mA	0.75 V	1 µA	150 µA (150 mA)	♦	♦	♦		♦	♦	♦	♦		45	SOIC-8 ePad, SOIC-16 ePad
NCV8518B	5	±2	250 mA	0.75 V	1 µA	150 µA (150 mA)	♦	♦	♦		♦	♦	♦	♦		45	SOIC-8 ePad, SOIC-16 ePad
NCV33275	3.3, 5	±2	300 mA	0.5 V	-	200 µA (0 mA)							♦	♦		13	SOT-223
NCV33375	1.8	±2	300 mA	0.5 V	4 µA	200 µA (0 mA)	♦						♦	♦		13	SOT-223
NCV8674	5	±2	350 mA	0.6 V	-	38 µA (100 µA)							♦	♦		45	D2PAK-3
NCV8675	3.3, 5	±2, ±2.5	350 mA	0.6 V	-	50 µA (100 µA)		♦	♦				♦	♦		45	DPAK-5, D2PAK-5
NCV8772	5	±1.5	350 mA	0.6 V	1 µA	30 µA (350 mA)	♦	♦	♦				♦	♦		45	D2PAK-7, D2PAK-5*
NCV8503	Adj, 2.5, 3.3, 5	±2	400 mA	0.6 V	1 µA	350 µA (100 µA)	♦	♦♦	♦	♦			♦	♦		60	SOIC-16 ePad
NCV8504	Adj, 2.5, 3.3, 5	±2	400 mA	0.6 V	-	150 µA (100 µA)		♦♦	♦	♦			♦	♦		60	SOIC-16 ePad
NCV8505	Adj, 2.5, 3.3, 5	±2	400 mA	0.6 V	1 µA	350 µA (100 µA)	♦	♦	♦				♦	♦		60	D2PAK-7
NCV8506	Adj, 2.5, 3.3, 5	±2	400 mA	0.6 V	-	150 µA (100 µA)		♦	♦				♦	♦		60	D2PAK-7
NCV4274A	2.5, 3.3, 5	±2	400 mA	0.5 V	-	250 µA (1 mA)							♦	♦		60	SOT-223, DPAK-3, D2PAK-3
NCV4276A	Adj, 3.3, 5	±2	400 mA	0.5 V	10 µA	220 µA (1 mA)	♦						♦	♦		45	DPAK-5, D2PAK-5
NCV4276B	Adj, 5	±2	400 mA	0.5 V	10 µA	220 µA (1 mA)	♦						♦	♦		45	DPAK-5, D2PAK-5
NCV4275A	3.3, 5	±2	450 mA	0.5 V	-	200 µA (1 mA)		♦	♦				♦	♦		45	DPAK-5, D2PAK-5

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NCV317M	Adj	±4	500 mA	2.2 V (Typ)	-	-							♦	♦		40	DPAK-3
NCV5500	Adj, 1.5, 3.3, 5	±4.9	500 mA	0.7 V	50 µA	500 µA (100 µA)	♦						♦	♦		18	SOIC-8, DPAK-5
NCV5501	1.5, 3.3, 5	±4.9	500 mA	0.7 V	-	500 µA (100 µA)							♦	♦		18	DPAK-3
NCV78Mxx	5, 8, 12, 15	±4	500 mA	**	-	**							♦	♦		35	DPAK-3, TO-220
NCV78MxxA	5	±4	500 mA	**	-	**							♦	♦		35	DPAK-3
NCV8141	5	±3	500 mA	1.5 V	50 µA	**	♦	♦	♦		♦		♦	♦	♦	60	D2PAK-7
NCV8535	Adj, 1.5, 1.8, 2.5, 2.8, 2.85, 3.0, 3.3, 5	±1.5	500 mA	0.34 V	1 µA	190 µA (100 µA)	♦						♦	♦		16	DFN-10
NCV8537	Adj, 1.8, 2.5, 3.3, 5	±1.5	500 mA	0.34 V	1 µA	190 µA (100 µA)	♦			♦			♦	♦		16	DFN-10
NCV8605	Adj, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3, 5.0	±1.5 (Adj)	500 mA	0.47 V	1 µA	180 µA (500 mA)							♦	♦			DFN-6
NCV8606	Adj, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3, 5.0	±1.5 (Adj)	500 mA	0.47 V	1 µA	180 µA (500 mA)	♦						♦	♦			DFN-6
CS8126	5	±3	750 mA	0.6 V	-	-		♦	♦				♦	♦	♦	60	D2PAK-7
CS8129	5	±3	750 mA	0.6 V	-	-		♦	♦				♦	♦	♦	60	SOIC-16
NCV33269	Adj, 3.3, 5, 12	±2	800 mA	1.35 V	-	-							♦	♦		20	DPAK-3
NCV78xxA	5, 12	±4	1 A	**	-	-							♦	♦		35	D2PAK-3, TO-220
NCV78xx	5, 8, 12, 15	5%	1 A	**	-	-							♦	♦		35	DPAK-3, D2PAK-3, TO-220
NCV5661	Adj, 1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3	±2	1 A	1.3 V	300 µA	-	♦	♦					♦	♦		18	DPAK-5, DFN-6
NCV1117	Adj, 1.5, 1.8, 2, 2.5, 3.3, 5, 12	±2	1 A	1.2 V	-	-							♦	♦		20	DPAK-3, SOT-223
NCV8690 *	Adj, 1.5, 1.8, 2.5, 3.3, 5.0	±1.5 (Adj)	1 A	0.47 V	1 µA	240 µA (1 A)							♦	♦			DFN-6
NCV8691/92*	Adj, 1.5, 1.8, 2.5, 3.3, 5.0	±1.5 (Adj)	1 A	0.47 V	1 µA	240 µA (1 A)	♦						♦	♦			DFN-6
NCV317	Adj	±4	1.5 A	2.25 V (Typ)	-	-							♦	♦		40	D2PAK-3, TO-220
NCV565	Adj	±3	1.5 A	1.3 V	-	-							♦	♦		18	D2PAK-5
NCV59150 *	Adj	±1.5 (Adj)	1.5 A	0.5 V	5 µA	-	♦			♦			♦	♦			DFN-8, D2PAK-3, D2PAK-5
NCV5662	Adj, 1.5	±2	2 A	1.3 V	300 µA	-	♦	♦					♦	♦		18	D2PAK-5
NCV59300 *	Adj	±2	3 A	1.3 V	5 µA	-	♦						♦	♦			DFN-6
NCV5663	Adj, 1.5	±2	3 A	1.3 V	300 µA	-	♦	♦					♦	♦		18	D2PAK-5

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DUAL AND MULTIPLE LINEAR VOLTAGE REGULATORS

Device	Output Voltage (V)	Tolerance (%)	Output Current (mA)	Dropout (Max)	Sleepmode Current (Max)	Quiescent Current [Max] @ Low Load (Load)	Enable	Reset	Delay	Sequenced	Automatic Switchover (ASO)	Early Warning Flag/Monitor	Current Limit	Overvoltage Shutdown	Overtemperature	Peak Transient (V)	Package(s)
NCV8509	5.0, 5.0, 3.3 2.6, 2.5, 1.8	±2 ±2	100 115	0.6 V —	—	175 µA (200 µA)		◆	◆	◆			●		●	50	SOIC-16 ePad
NCV5504	Adj 3.3	±2 ±2	250 250	0.4 V 0.4 V	—	450 µA (0 µA)							●		●	18	DPAK-5
NCV8612B	5 3.3 Adj	±2 ±2 ±2	120 80 400	0.5 V 1.0 V 2.5 V	0.5 µA	50 µA (70 µA)	◆	◆	◆		◆	◆	●	●	●	45	DFN-20
NCV8614B	5 3.3 Adj	±2 ±2 ±2	100 300 400	0.5 V 1.5 V 2.5 V	0.5 µA	50 µA (70 µA)		◆	◆		◆	◆	●	●	●	45	DFN-20

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TRACKING REGULATORS

Device	Output Voltage	Tolerance	Output Current	Dropout (Max)	Sleepmode Current (Max)	Quiescent Current [Max] @ Low Load (Load)	Enable	Reset	Current Limit	Overvoltage	Overtemperature	Peak Transient	Package(s)
NCV8184	Tracking	±3 mV	70 mA	0.6 V	20 µA	70 µA (100 µA)	◆		●		●	42 V	DPAK-5, SOIC-8, SOIC-8 ePad
CS8182	Tracking	±5 mV	200 mA	0.6 V	55 µA	150 µA (100 µA)	◆		●		●	45 V	DPAK-5, D2PAK-5, SOIC-8 Fused
CS8183	Tracking Tracking	±5 mV ±5 mV	200 mA** 200 mA**	0.6 V 0.6 V	55 µA	150 µA (100 µA)	◆		●		●	45 V	SOIC-20 Fused
CS8361	Tracking 5 V	±25 mV ±2 %	250 mA 100 mA	0.7 V 0.6 V	200 µA	200 µA (300 µA)	◆	◆	●	●	●	60 V	D2PAK-7, SOIC-16 Fused
CS8363	Tracking 3.3 V	±25 mV ±2 % / ±2.4 %	250 mA 100 mA	0.7 V 1.05 V	200 µA	200 µA (300 µA)	◆	◆	●	●	●	60 V	D2PAK-7

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LINEAR VOLTAGE REFERENCES

Device	Voltage	Tolerance	Forward Current (Max)	Reverse Current (Max)	Adj Range	Dynamic Impedance (Typ)	Temperature Drift (Typ)	Time Drift	Package(s)
NCV1009	2.5 V	2%	10 mA	20 mA	5%	0.4 Ω	1.8 mV	20 ppm/kHr	SOIC-8
NCV431A	2.5 V	±2.20%	100 mA	150 mA	-	0.22 Ω	7.0 mV	-	SOIC-8, Micro8™
NCV431B	2.5 V	±0.80%	100 mA	150 mA	-	0.22 Ω	3.0 mV	-	Micro8

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ALTERNATOR VOLTAGE REGULATORS

Device	Darlington Driver	FET Driver	Stator Powerup	Lamp Driver	Flip-Chip	Current Limit	Peak Transient	Package(s)
CS3351	●		●	◆	◆	●	80 V	SOIC-14
CS3361		●		◆		●	80 V	SOIC-14

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SENSOR INTERFACE

Device	Description	Dual	Open Sensor Detect	Sensor Input Voltage Range	V _{CC} (Max)	Package(s)
NCV1124	Variable Reluctance Sensor Interface	●	◆	-250 to +250 V	7 V	SOIC-8

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LOGIC DEVICES

Family	Device	Description	Operating Voltage (V)	Package(s)
Metal Gate	MC14021B	8-Bit Static Shift Register	3 to 18	SOIC-16
	MC14040B	12-Bit Binary Counter	3 to 18	SOIC-16
	MC14050B	Hex Buffer	3 to 18	SOIC-16
	MC14051B	Analog Multiplexers/Demultiplexers	3 to 18	SOIC-16
	MC14052B	Analog Multiplexers/Demultiplexers	3 to 18	SOIC-16
	MC14060B	14-Stage Binary Counter/Oscillator	3 to 18	SOIC-16
	MC14066B	Quad Analog Switch/Quad Multiplexer	3 to 18	SOIC-14
	MC14094B	8-Bit Shift/Store Register with Three-State Outputs	3 to 18	SOIC-16
	MC14538B	Dual Precision Monostable Multivibrator	3 to 18	SOIC-16
High Speed CMOS	MC74HC02A	Quad 2-Input NOR Gate	2 to 6	SOIC-14
	MC74HC08A	Quad 2-Input AND Gate	2 to 6	SOIC-14
	MC74HC14A	Hex Schmitt-Trigger Inverter	2 to 6	SOIC-14
	MC74HC74A	Dual D-Type Flip-Flop with Set and Reset	2 to 6	SOIC-14
	MC74HCT74A	Dual D-Type Flip-Flop with Set and Reset	4.5 to 5.5	SOIC-14
	MC74HC132A	Quad 2-Input NAND Schmitt Trigger	2 to 6	SOIC-14
	MC74HC595A	Shift Register 3-State	2 to 6	SOIC-16
	MC74HC4051A	Analog Multiplexers/Demultiplexers	2 to 6	SOIC-16
	MC74HC4052A	Analog Multiplexers/Demultiplexers	2 to 6	SOIC-16
	MC74HC4060A	14-Stage Binary Ripple Counter with Oscillator	2 to 6	SOIC-16
	MC74HC4066A	Quad Analog Switch/Multiplexer/Demultiplexer	2 to 12	SOIC-14
	MC74HC4851A	Analog Multiplexer/Demultiplexer with Injection Current Effect Control	2 to 6	SOIC-16
	MC74HC4852A	Analog Multiplexers/Demultiplexers with Injection Current Effect Control	2 to 6	SOIC-16
	MC74VHCT50A	Non-inverting Buffer / CMOS Logic Level Shifter with LSTTL-Compatible Inputs	4.5 to 5.5	SOIC-14
Low Voltage	MC74VHCT125A	Quad Bus Buffer, 3 State, TTL Level	4.5 to 5.5	SOIC-14
	MC74VHC244	Octal Noninverting Bus Buffer, 3 State	2 to 5.5	TSSOP-20
	MC74LCX245	Low-Voltage CMOS Octal Transceiver	2 to 3.6	TSSOP-20
	MC74LVX4245	Dual Supply Octal Translating Transceiver	2.7 to 3.6	TSSOP-24
MiniGates™	M74VHC1GT125	Single Non Inverting Buffer, 3-State	3 to 5.5	SC-88A, SOT-353, SC-70
	M74VHC1GT50	Single Non Inverting Buffer, TTL Level	1.65 to 5.5	SC-88A, SOT-353, SC-70
	NL17SZU04	Single Unbuffered Inverter	1.65 to 5.5	SC-88A, SOT-353, SC-70
	NL27WZ04	Dual Inverter	1.65 to 5.5	SC-88/SC-70/SOT-363

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MiniGate is a trademark of Semiconductor Components Industries, LLC.

VOLTAGE SENSING RESET CIRCUITS

Device																				Window Detection	Reference Voltage	Quiescent Current Max (μA)	Input Supply Voltage (V)	Package(s)					
	1	1.2	1.3	1.5	1.6	1.7	2.0	2.2	2.3	2.5	2.7	2.8	2.9	3.0	3.3	3.6	4.0	4.2	4.33						4.4	4.5	4.6	4.7	4.9
NCV300												◆				◆											1.3	12	TSOP-5
NCV301		◆			◆		◆	◆		◆	◆	◆				◆		◆	◆			◆					1.3	12	TSOP-5
NCV302															◆												1.3	12	TSOP-5
NCV303	◆			◆		◆			◆				◆	◆				◆		◆	◆	◆	◆	◆			1.3	12	TSOP-5
NCV809																							◆				2.5	6	SOT-23
NCV33064																							◆				500	10	SOIC-8, Micro8, TO-92
NCV33161			◆																						◆	◆	700	40	SOIC-8
NCV33164											◆									◆							50	12	SOIC-8

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SWITCHING REGULATORS & CONTROLLERS

Device	Type	Output Voltage	Voltage Tolerance	Switch Current	Osc Freq	Input Range	Mode	Regulator	Controller	Synchronous	Enable	SEPIC/Buck-Boost	Linear Regulator	Reset	SYNC	Current Limit	Overtemperature	Peak Transient	Package(s)
NCV2574	Buck	Adj	+4.1	0.65 A	52 kHz	4.75-40 V	Voltage	◆			◆					●	●	40 V	SOIC-16
NCV8842	Buck	Adj	2.0%	1.5 A	170 kHz	4.5-40 V	V2	◆			◆				◆	●	●	45 V	SOIC-16 ePad, DFN-18
NCV8843	Buck	Adj	2.0%	1.5 A	340 kHz	4.5-40 V	V2	◆			◆				◆	●	●	45 V	SOIC-16 ePad, DFN-18
NCV51411	Buck	Adj	2.0%	1.6 A	260 kHz	4.5-40 V	V2	◆			◆				◆	●	●	45 V	SOIC-8, SOIC-16 ePad, DFN-18
NCV33063A	Boost or Buck	Adj	2.0%	1.5 A	33 kHz	3-40 V	Invert	◆				◆						40 V	SOIC-8
NCV3063	Boost or Buck	Adj	2.0%	1.5 A	150 kHz	5-40 V	Invert	◆	◆			◆					●	40 V	DIP-8, SOIC-8, DFN-8 4x4
NCV3065	Boost or Buck	Adj	5.0%	1.5 A	150 kHz	3-40 V	Constant Current	◆	◆			◆						40 V	DIP-8, SOIC-8, DFN-8 4x4
NCV33163	Boost or Buck	Adj	2.0%	2.5 A	50 kHz	2.5-60 V	Invert	◆				◆		◆		●	●	60 V	DIP-16, SOIC-16
NCV3163	Boost or Buck	Adj	3.0%	2.5 A	250 kHz	2.5-40 V	Voltage	◆			◆	◆				●	●	40 V	SOIC-16 ePad
NCV5171	Boost	Adj	2.1%	1.5 A	280 kHz	2.7-30 V	Current	◆			◆	◆			◆	●	●	35 V	SOIC-8
NCV5173	Boost	Adj	2.1%	1.5 A	560 kHz	2.7-30 V	Current	◆			◆	◆			◆	●	●	35 V	SOIC-8
CS2841B	PWM	Adj	1.0%	0.2 A	Adj	8-40 V	Current		◆				◆			●		40 V	DIP-14, SOIC-14
NCV3843BV	PWM	Adj	2.0%	0.2 A	52 kHz	9-30 V	Current		◆							●		30 V	SOIC-14
NCV494	PWM	Adj	5.0%	0.5 A	Adj	7-40 V	Voltage		◆				◆					42 V	SOIC-16
NCV8851B	Buck	Adj	2.0%	NA	Adj	4.5-40 V	Average Current		◆	◆	◆		◆		◆	●	●	45 V	TSSOP-20
NCV3020*	Buck	Adj	1.5%	NA	300/600 kHz	4.7-28 V			◆	◆									SOIC-8
NCV3011*	Buck	Adj	1.5%	NA	400 kHz	4.7-28 V			◆	◆	◆				◆				TSSOP-14

NOTE: Boost converters can be used in a SEPIC topology for applications requiring a higher or lower output voltage.

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

* Pending 2011

DRIVERS

Device	Description	SPI	Output Current	Current Limit Min (A)	R _{DS(on)} @ 25°C	V _{s_op} (V)	V _s Peak Transient (V)	Sleep Mode	On-Chip Flyback Diode	Active Output Clamp	Parallel Inputs	Fault Reporting	Undervoltage Lockout	Open Load Detect	Current Limit	Overvoltage	Overtemperature	Low Duty Cycle Overcurrent Mode	AEC-PPAP	Package(s)
NCV7708B	Dual Hex High/Low-Side Driver	16-bit	500 mA	1	0.8 Ω	5.5 - 40	40	◆	◆	◆		◆	◆	◆	◆	◆	◆		Note 1	SOIC-28
NCV1413	Darlington Transistor Array	-	500 mA	-	-	30	50		◆		◆								Note 1	SOIC-16
NCV7702B	Dual H-Bridge Driver	-	-	1	-	7 - 16	60	◆	◆		◆	◆			◆	◆	◆	◆	Note 1	SOIC-24
NCV7703	Triple Half-Bridge Driver	16-bit	500 mA	1	0.8 Ω	5.5 - 40	40	◆				◆	◆	◆	◆	◆	◆		Note 1	SOIC-14
NCV7707 *	3x Dual Half-Bridge, 5x HS, 1x LS Driver	24-bit	up to 6 A	up to 6 A	HB: 1.6/0.3/0.15 Ω HS: 1.4/0.3/0.1 Ω LS: 1.6 Ω	5.5 - 28	40	◆	◆		◆	◆	◆	◆	◆	◆	◆		Note 2	SSOP-36 EP
NCV7608	Configurable 8-Fold High/Low-Side Driver	16-bit	350 mA	0.8	1.2 Ω	3 - 28	40	◆	◆		◆	◆	◆	◆	◆	◆	◆		Note 1	SOIC-28
NCV7240 *	8x LS Driver	16-bit	300 mA	0.6	-	(VDD) 4.5 - 5.5	(VDD) 5.5	◆			◆	◆		◆	◆		◆		Note 2	SSOP-24
NCV7729	H-Bridge Driver	16-bit	5 A	8	0.15 Ω	5 - 28	40	◆			◆	◆	◆	◆	◆	◆	◆		Note 1	PSOP-20
AMIS-39100	Octal High Side Driver	8-bit	350 mA	0.65	1 Ω	3.5 - 16	35	◆		◆	◆	◆	◆	◆	◆		◆		Note 2	SOIC-28

NOTE 1: Devices are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

NOTE 2: Contact ON Semiconductor for AEC and PPAP status.

* Pending 2011

PRE-DRIVERS

Device	Description	Output Current	R _{DS(ON)} @ 25°C	Sleep Mode	On-Chip Flyback Diode	Parallel Inputs	SPI	Fault Reporting	Undervoltage Lockout	Open Load Detect	Current Limit	Peak Transient	Package(s)
NCV7513B	Hex Low-Side MOSFET Driver	1.9 mA	1.8 kΩ	◆		◆	◆	◆	◆	◆	●	6.5 V	LQFP-32
NCV7517B	Hex Low-Side MOSFET Driver	1.9 mA	1.8 kΩ	◆		◆	◆	◆	◆	◆	●	6.5 V	LQFP-32
NCV33152	High Speed Dual MOSFET Drivers	1.5 A	-	◆	◆	◆						20 V	SOIC-8

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

MOTOR CONTROL

Device	Description	Interface	I _{out} Max	Peak Transient	3 and 4 Phase Capable	FET Driver	H-Bridge	Undervoltage Lockout	Current Limit Adjust	On-Chip Linear Regulator	Current Limit	Thermal Shutdown	Sensorless Stall Detect	Package(s)
NCV70521	Stepper Motor Driver	SPI	1.6 A	40 V			●				●	●	●	QFP-32
NCV70522	Stepper Motor Driver	SPI	1.6 A	40 V			●			◆	●	●	●	QFP-32
AMIS-30621	Stepper Motor Driver and Controller	LIN	800 mA	40 V			●	◆		◆	●	●		SOIC-20, QFP-32
AMIS-30622	Stepper Motor Driver and Controller	I2C	800 mA	40 V			●	◆		◆	●	●		SOIC-20
AMIS-30623	Stepper Motor Driver and Controller	LIN	800 mA	40 V			●	◆		◆	●	●	●	SOIC-20, QFP-32
NCV33033	Brushless DC Motor Controller	-	100 mA	30 V	●	●	●	◆	◆	◆	●	●		SOIC-20
NCV33035	Brushless DC Motor Controller	-	100 mA	40 V	●	●	●	◆	◆	◆	●	●		SOIC-24
NCV33039 *	Closed Loop Brushless Motor Adapter	-		8.25 V **										SOIC-8

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

*Intended for use with the NCV33035. **Internal shunt regulator.

OP AMPS & COMPARATORS

Device	Description	Single	Dual	Quad	Response Time	Large Signal Response Time	Input Bias Current	Input Offset Voltage (Max)	Gain/Bandwidth (MHz)	Quiescent Current	Slew Rate	Peak Transient	Package(s)
NCV2001	Low Voltage, Rail-to-Rail Op Amp	◆			—	—	10 pA	9.5 mV	1.4	1.5 mA	1.6 V/μs	7 V	SOT-23
NCV2002	Low-Voltage, Rail-to-Rail Op Amp with Enable	◆			—	—	10 pA	9.5 mV	0.9	1 mA	1.3 V/μs	7 V	TSOP-6
NCV2903	Low Offset Voltage Comparators		◆		1.5 μs	300 ns	25 nA	7 mV	—	2.5 mA	—	36 V	SOIC-8, Micro8
NCV2904	Operational Amplifier		◆		—	—	45 nA	7 mV	1	3.0 mA	0.6 V/μs	32 V	SOIC-8, Micro8
NCV33172	Low Power Op Amp		◆		—	—	5 nA	4.5 mV	1.8	250 μA	2.1 V/μs	22 V	SOIC-8
NCV33202	Low-Voltage, Rail-to-Rail Op Amp		◆		—	—	100 nA	8 mV	2.2	2.25 mA	1.0 V/μs	13 V	SOIC-8
NCV33272A	Low Input Offset Voltage Op Amp		◆		—	—	300 nA	3.5 mV	24	12 mA	10 V/μs	36 V	SOIC-8
NCV2901	Comparator			◆	1.3 μs	300 ns	25 nA	7 mV	—	2.5 mA	—	36 V	SOIC-14, TSSOP-14
NCV2902	Operational Amplifier			◆	—	—	90 nA	7 mV	1	3.0 mA	0.6 V/μs	32 V	SOIC-14, TSSOP-14
NCV33074A	Single Supply (3 V to 44 V) Op Amp			◆	—	—	700 nA	5 mV	4.5	11 mA	10 V/μs	44 V	TSSOP-14
NCV33204	Low-Voltage, Rail-to-Rail Op Amp			◆	—	—	100 nA	8 mV	2.2	4.5 mA	1.0 V/μs	13 V	SOIC-14, TSSOP-14
NCV33274A	Low Input Offset Voltage Op Amp			◆	—	—	300 nA	3.5 mV	24	12 mA	10 V/μs	36 V	SOIC-14, TSSOP-14

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

Enabling Energy Efficient Solutions

LIN TRANSCEIVERS

Device	Description	Bus Speed (Baud)	ISO 9141	LIN 2.0	LIN 2.1	J2602	Sleep Mode Current (µA) Max	Overtemperature	Package(s)
AMIS-30600	LIN Transceiver	20 K	◆	◆		◆	55	◆	SOIC-8
NCV7321	Stand Alone LIN Transceiver	20 K	◆	◆	◆	◆	10	◆	SOIC-8
NCV7420	LIN Transceiver with Voltage Regulator (50 mA, 3.3 or 5.0 V)	20 K	◆	◆	◆	◆	20	◆	SOIC-14
NCV7425*	LIN Transceiver with Voltage Regulator (150 mA, 3.3 V)	20 K	◆	◆	◆	◆	20	◆	SOIC-16W EP

All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

* Pending 1H11

CAN TRANSCEIVERS

Device	Description	ISO 11898-2	ISO 11898-3	ISO 11898-5	Sleep Mode Current (µA) Max	Bus Speed (Max)	ESD Protection (CAN Pin)	Package(s)
AMIS-30660	High Speed CAN Transceiver, 5 V	◆			N/A*	1 Mbps	4 kV	SOIC-8
AMIS-30663	High Speed CAN Transceiver, 3.3 V	◆			N/A*	1 Mbps	4 kV	SOIC-8
AMIS-41682	Fault Tolerant CAN Transceiver, 5 V		◆		60	250 kbps	6 kV	SOIC-14
AMIS-41683	Fault Tolerant CAN Transceiver, 3.3 V		◆		60	250 kbps	6 kV	SOIC-14
AMIS-42665	High Speed, Low Power CAN Transceiver	◆		◆	15	1 Mbps	8 kV	SOIC-8
NCV7340	High Speed, Low Power CAN Transceiver	◆		◆	15	1 Mbps	12 kV	SOIC-8
NCV7341	High Speed, Low Power CAN Transceiver	◆		◆	36	1 Mbps	4 kV	SOIC-14
AMIS-42700	Dual High Speed CAN Transceiver	◆			N/A*	1 Mbps	4 kV	SOIC-20
NCV7356	Single Wire CAN Transceiver	**			60	40 kbps	4 kV	SOIC-8, SOIC-14

All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. * Sleep mode not featured/implemented. ** SW-CAN - Not defined in ISO.

GAUGE DRIVER

Device	Description	Major Gauge Driver	Frequency to Voltage Converter	Drive Current	Return to Zero	UVLO	Current Limit	Peak Transient	Package(s)
CS8190	Precision Air-Core Tach/Speedo Driver with Return to Zero	●	●	33 mA	◆	◆		60 V	DIP-16 Fused, SOIC-20 Fused

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

TIMER

Device	Description	Astable	Monostable	Output (Source)	Output (Sink)	Stability	Peak Transient	Package(s)
NCV1455B	Monolithic Timer	●	●	200 mA	200 mA	0.005% per °C	18 V	SOIC-8

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

RELAY DRIVERS

Device	Configuration	Circuit Type *	Voltage (V)	Current (mA)	AEC-PPAP	Package(s)
MDC3105	Single	Bipolar-Clamp	5	500	Note 2	SOT-23
MDC3105D	Dual	Bipolar-Clamp	5	500	Note 2	SC-74
NUD3105	Single	MOSFET	5	500	Note 1	SOT-23
NUD3105D	Dual	MOSFET	5	500	Note 1	SC-74
NUD3112	Single	MOSFET	12	500	Note 1	SOT-23
NUD3112D	Dual	MOSFET	12	500	Note 1	SC-74
NUD3124	Single	MOSFET	24	150	Note 1	SOT-23
NUD3124D	Dual	MOSFET	24	150	Note 1	SC-74
NUD3160	Single	MOSFET	60	150	Note 1	SOT-23
NUD3160D	Dual	MOSFET	60	150	Note 1	SC-74

* Bipolar: the driver circuit consists of a transistor combined with resistors and diodes; MOSFET: the driver circuit consists of a MOSFET combined with resistors and diodes

NOTE1: Devices are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

NOTE2: Contact ON Semiconductor for AEC and PPAP status.

ZENER DIODES

V _Z Typ	200 mW	200 mW	225 mW	500 mW		1.5 W	3 W
Volts	SOD-523	SOD-323	SOT-23	SOD-123		SMA	SMB
4.7	MM5Z4V7	MM3Z4V7	BZX84C4V7L	MMSZ4688	MMSZ5230B	1SMA5917B	1SMB5917B
5.1	MM5Z5V1	MM3Z5V1	BZX84C5V1L	MMSZ4689	MMSZ5231B	1SMA5918B	1SMB5918B
5.6	MM5Z5V6	MM3Z5V6	BZX84C5V6L	MMSZ4690	MMSZ5232B	1SMA5919B	1SMB5919B
6.2	MM5Z6V2	MM3Z6V2	BZX84C6V2L	MMSZ4691	MMSZ5234B	1SMA5920B	1SMB5920B
6.8	MM5Z6V8	MM3Z6V8	BZX84C6V8L	MMSZ4692	MMSZ5235B	1SMA5921B	1SMB5921B
7.5	MM5Z7V5	MM3Z7V5	BZX84C7V5L	MMSZ4693	MMSZ5236B	1SMA5922B	1SMB5922B
8.2	MM5Z8V2	MM3Z8V2	BZX84C8V2L	MMSZ4694	MMSZ5237B	1SMA5923B	1SMB5923B
10	MM5Z10V	MM3Z10V	BZX84C10L	MMSZ4697	MMSZ5240B	1SMA5925B	1SMB5925B
12	MM5Z12V	MM3Z12V	BZX84C12L	MMSZ4699	MMSZ5242B	1SMA5927B	1SMB5927B
13	MM5Z13V	MM3Z13V	BZX84C13L		MMSZ5243B	1SMA5928B	1SMB5928B
14				MMSZ4701	MMSZ5244B		
15	MM5Z15V	MM3Z15V	BZX84C15L	MMSZ4702	MMSZ5245B	1SMA5929B	1SMB5929B
16	MM5Z16V	MM3Z16V	BZX84C16L	MMSZ4703	MMSZ5246B	1SMA5930B	1SMB5930B
17				MMSZ4704	MMSZ5247B		
18	MM5Z18V	MM3Z18V	BZX84C18L	MMSZ4705	MMSZ5248B	1SMA5931B	1SMB5931B
19				MMSZ4706	MMSZ5249B		
20	MM5Z20V	MM3Z20V	BZX84C20L	MMSZ4707	MMSZ5250B	1SMA5932B	1SMB5932B
24	MM5Z24V	MM3Z24V	BZX84C22L	MMSZ4709	MMSZ5252B	1SMA5934B	1SMB5934B
27	MM5Z27V	MM3Z27V	BZX84C27L	MMSZ4711	MMSZ5254B	1SMA5935B	1SMB5935B
30	MM5Z30V		BZX84C30L	MMSZ4713	MMSZ5256B	1SMA5936B	1SMB5936B
33	MM5Z33V	MM3Z33V	BZX84C33L	MMSZ4714	MMSZ5257B	1SMA5937B	1SMB5937B
36	MM5Z36V	MM3Z36V	BZX84C36L	MMSZ4715	MMSZ5258B	1SMA5938B	1SMB5938B
39		MM3Z39V	BZX84C39L		MMSZ5259B	1SMA5939B	1SMB5939B
43		MM3Z43V	BZX84C43L	MMSZ4717	MMSZ5260B	1SMA5940B	1SMB5940B
47			BZX84C47L		MMSZ5261B	1SMA5941B	1SMB5941B

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

DUAL ZENER DIODES

	Device	V _{BR} Typ (V)	V _{RWM} Max (V)	I _R Max (μA)	I _{PP} Max (A) (Note)	V _C Max (V)	Package(s)
Common Cathode	MMBZ15VDL	15	12.8	0.1	1.9	21.2	SOT-23
	MMBZ27VCL	27	22	0.05	1	38	
Common Anode	MMBZ5V6AL	5.6	3	5	3	8	
	MMBZ6V2AL	6.2	3	0.5	2.76	8.7	
	MMBZ6V8AL	6.8	4.5	0.5	2.5	9.6	
	MMBZ9V1AL	9.1	6	0.3	1.7	14	
	MMBZ12VAL	12	8.5	0.2	2.35	17	
	MMBZ15VAL	15	12	0.05	1.9	21	
	MMBZ18VAL	18	14.5	0.05	1.6	25	
	MMBZ20VAL	20	17	0.05	1.4	28	
	MMBZ27VAL	27	22	0.05	1	40	
	MMBZ33VAL	33	26	0.05	0.87	46	
Common Cathode	MMBZ27VCW	27	22	0.05	1	38	SC-70
Common Anode	MMBZ27VAW	27	22	0.05	1	40	

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. NOTE: I_{PP} Max rating based on 8 x 20 μs surge waveform.

TRANSIENT VOLTAGE SUPPRESSORS

	Device	V _{BR} Typ (V)	V _{RRM} Max (V)	I _R Max (μA)	I _{PP} Max (A) (Note)	V _C Max (V)	Package(s)
Unidirectional	1SMA16A	18.75	16	2.5	15.4	26	SMA
	1SMA20A	23.35	20	2.5	12.3	32.4	
	1SMA24A	28.1	24	2.5	10.3	38.9	
	1SMA28A	32.75	28	2.5	8.8	45.4	
	1SMA30A	35.05	30	2.5	8.3	48.4	
	1SMA33A	38.65	33	2.5	7.5	53.3	
	1SMA36A	42.1	36	2.5	6.9	58.1	
	1SMA40A	46.75	40	2.5	6.2	64.5	
	1SMA43A	50.3	43	2.5	5.8	69.4	SMB
	P6SMB27A	27	23.1	5	16	37.5	
	P6SMB30A	30	25.6	5	14.4	41.4	
	1SMB26A	30.4	26	5	14.2	42.1	
	P6SMB33A	33	28.2	5	13.2	45.7	
	P6SMB36A	36	30.8	5	12	49.9	
	1SMB33A	38.65	33	5	11.3	53.3	
	P6SMB39A	39	33.3	5	11.2	53.9	SMC
	1SMC22A	25.65	22	5	42.2	35.5	
	1.5SMC27A	27	23.1	5	37.5	37.5	
	1SMC24A	28.1	24	5	38.6	38.9	
	1.5SMC30A	30	25.6	5	41.4	41.4	
	1.5SMC33A	33	28.2	5	45.7	45.7	
	1SMC30A	35.05	30	5	31	48.4	
	1.5SMC36A	36	30.8	5	49.9	49.9	
	1.5SMC39A	39	33.3	5	53.9	53.9	
	1SMC36A	42.1	36	5	25.8	58.1	
	1.5SMC47A	47	40.2	5	64.8	64.8	
	1.5SMC62A	62	53	5	85	85	SOD-123FL
	SMF15A	17.6	15	1	8.2	24.4	
	SMF18A	21	18	1	6.8	29.2	
	SMF20A	23.35	20	1	6.2	32.4	
	SMF22A	25.6	22	1	5.6	35.5	
	SMF24A	29.5	24	1	5.1	38.9	
	SMF26A	30.4	26	1	4.8	42.1	
	SMF28A	32.8	28	1	4.4	45.4	
	SMF30A	35.1	30	1	4.1	48.4	
	SMF33A	38.7	33	1	3.8	53.3	
	SMF36A	42.1	36	1	3.4	58.1	
	SMF48A	56.1	48	1	2.6	77.4	
	SMF58A	67.8	58	1	2.1	93.6	
Bidirectional	1SMA16CA	18.75	16	2.5		26	SMA
	1SMA24CA	28.1	24	2.5		38.9	
	P6SMB30CA	30	25.6	5		41.4	SMB
	P6SMB36CA	36	30.8	5		49.9	
	1SMB36CA	42.1	36	5		58.1	
	P6SMB43CA	43	36.8	5		59.3	
	1SMB43CA	50.3	43	5		69.4	
LIN / LS CAN Bus Protection	NUP1105L	27.05	24	0.1	8	44	SOT-23
HS CAN Bus Protection	NUP2105L	29.1	24	0.1	8	44	
Low Cap Data Line Protection	NUP2114UCMR6	7.5	5	1	12	12	TSOP-6
	SZNUP4114HMR6	7.5	5	1	12	12.1	
	ESD9L3.3S	4.8	3.3	1		9	SOD-923
	ESD9L5.0S	5.4	5	1		9.8	

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. NOTE: I_{PP} Max rating based on 10 x 1000 μsec surge waveform.

SCHOTTKY DIODES

Device	V _R (V)	I _F (mA)	C _T Max (pF)	V _F Max (V)	I _R Max (μA)	Type	Package(s)
BAT54	30	200	10	0.32	2	Single	SOD-123
MMSD301	30	200	1.5	0.45	0.2	Single	
BAT54H	30	200	10	0.32	2	Single	SOD-323
MMDL301	30	200	1.5	0.45	0.2	Single	
RB751V40	30	30	2.5	0.37	0.5	Single	
BAS70L	70	70	2	0.41	0.1	Single	SOT-23
BAS40L	40	120	5	0.38	1	Single	
BAS40-04L	40	120	5	0.38	1	Dual Series	
BAS40-06L	40	120	5	0.38	1	Dual Common Anode	
BAT54CL	30	200	10	0.32	2	Dual Common Cathode	
BAT54L	30	200	10	0.32	2	Single	
BAT54AL	30	200	10	0.32	2	Dual Common Anode	
BAT54SL	30	200	10	0.32	2	Dual Series	
BAT54AW	30	200	10	0.32	2	Dual Common Anode	
BAT54CW	30	200	10	0.32	2	Dual Common Cathode	
BAT54W	30	200	10	0.32	2	Single	SC-70
BAT54SW	30	200	10	0.32	2	Dual Series	
MMBD330	30	200	1.5	0.45	0.2	Single	
RB751S40	30	30	2.5	0.37	0.5	Single	SOD-523
BAT54XV2	30	200	10	0.32	2	Single	
RB520S30	30	200		0.6	1	Single	
RB521S30	30	200		0.5	30	Single	
NSRLL30XV2	30	200	10	0.6	1	Single	
NSR0140P2	30	70	2.5	0.35	0.5	Single	SOD-923
NSR0240P2	40	200	7	0.46	0.2	Single	

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

CONSTANT CURRENT REGULATORS

Device	Max V _{AK} (V)	Cont I _{reg} (mA)	I _{reg} (%)	P _D	Package(s)
NSI50010Y	50	10	± 30	463 mW	SOD-123
NSI45015W	45	15	± 20	463 mW	
NSI45030	45	30	± 15	463 mW	
NSI45025	45	25	± 15	463 mW	
NSI45020	45	20	± 15	463 mW	
NSI45030A	45	30	± 10	463 mW	
NSI45025A	45	25	± 10	463 mW	
NSI45020A	45	20	± 10	463 mW	
NSI45060JD	45	60 - 100	± 15	2.7 W	DPAK
NSI45090JD	45	90 - 160	± 15	2.7 W	
NSI45020JD	45	20 - 40	± 15	1.5 W	
NSI45035JD	45	35 - 70	± 15	1.5 W	SOT-223
NSI45030Z	45	30	± 15	1.5 W	
NSI45025Z	45	25	± 15	1.5 W	
NSI45030AZ	45	30	± 10	1.5 W	
NSI45025AZ	45	25	± 10	1.5 W	

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

SWITCHING DIODES

Device	V _R Min (V)	I _R Max (μA)	V _F Max (V)	C _T Max (pF)	t _{rr} Max (ns)	Type	Package(s)
BAV199L	70	0.005	1	2		Dual Series	SOT-23
BAL99L	70	2.4	1	1.5	6	Single	
BAV99L	70	2.4	1	1.5	6	Dual Series	
BAW56L	70	2.4	1	2	6	Dual Common Anode	
BAV70L	70	2.5	1	1.5	6	Dual Common Cathode	
MMBD914L	100	5	1	4	4	Single	
BAS20L	200	0.1	1	5	50	Single	
BAS21L	250	0.1	1	5	50	Single	
BAS21SL	250	1	1	5	50	Single	
BAV99W	70	2.4	1	1.5	6	Dual Series	SC-70
BAV99RW	70	2.5	1	1.5	6	Dual Series	
BAW56W	70	2.5	1	2	6	Dual Common Anode	
BAV70W	70	5	1	1.5	6	Dual Common Cathode	
MMSD4148	100	5	1	4	4	Single	SOD-123
MMSD914	100	5	1	4	4	Single	
MMSD103	250	1	1	5	50	Single	
MMDL914	100	5	1	4	4	Single	SOD-323
BAS20H	200	0.1	1	5	50	Single	
BAS21AH	250	0.04	1	5	50	Single	
BAS21H	250	1	1	5	50	Single	
BAV70T	70	5	1	1.5	6	Dual Common Cathode	SC-75
BAS21DW5	250	0.1	1	5	50	Dual Isolated	SC-88A

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

DIGITAL TRANSISTORS

	NPN Device	PNP Device	V _{(BR)CEO} Min (V)	I _C Max (mA)	h _{FE} Min	R ₁ (Ω)	R ₂ (Ω)	Package(s)
Single	MUN2211	MUN2111	50	100	35	10k	10k	SC-59
	MUN2213	MUN2113	50	100	80	47k	47k	
	MUN2214	MUN2114	50	100	80	10k	47k	
	MUN2233		50	100	80	4.7k	47k	
	MMUN2211L	MMUN2111L	50	100	35	10k	10k	SOT-23
	MMUN2213L	MMUN2113L	50	100	80	47k	47k	
	MMUN2214L	MMUN2114L	50	100	80	10k	47k	
	MMUN2216L	MMUN2116L	50	100	160	4.7k	∞	
	MMUN2232L	MMUN2132L	50	100	15	4.7k	4.7k	SC-70
	MUN5211	MUN5111	50	100	35	10k	10k	
Dual	MUN5230		50	100	3	1k	1k	
	MUN5233	MUN5133	50	100	80	4.7k	47k	SC-88
	MUN5211DW1	MUN5111DW1	50	100	35	10k	10k	
	MUN5214DW1	MUN5114DW1	50	100	80	10k	47k	
	MUN5230DW1		50	100	3	1k	1k	
	MUN5233DW1	MUN5133DW1	50	100	80	4.7k	47k	
	MUN5235DW1	MUN5135DW1	50	100	80	2.2k	47k	
	Device	Type	V _{(BR)CEO} Min (V)	I _C Max (mA)	h _{FE} Min	R ₁ (Ω)	R ₂ (Ω)	Package(s)
Combinational	MUN5311DW1	Dual Complementary	50	100	35	10k	10k	SC-88
	MUN5313DW1	Dual Complementary	50	100	80	47k	47k	
	MUN5314DW1	Dual Complementary	50	100	80	10k	47k	
	UMC5N	Dual Common Base Collector	50	100	20	47k	∞	
	EMC2DXV5	Dual Common Base Collector	50	100	60	22	22	SOT-553
	EMC4DXV5	Dual Common Base Collector	50	100	80	10k/47k	47k	

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

SMALL SIGNAL BIPOLAR TRANSISTORS

NPN	PNP	$V_{(BR)CEO}$ Min (V)	I_C Max (A)	h_{FE} Min	h_{FE} Max	f_T Min (MHz)	Package(s)
MMBTA42L		300	0.5	40		50	SOT-23
	MMBTA92L	300	0.5	25		50	
MMBT5551L		160	0.6	80	250		
	MMBT5401L	150	0.5	60	240	100	
MMBTA06L	MMBTA56L	80	0.5	100			
BC846AL		65	0.1	110	220	100	
BC846BL		65	0.1	200	450	100	
	BC856AL	65	0.1	125	250	100	
	BC856BL	65	0.1	220	475	100	
	MMBT2907AL	60	0.6	50	300	200	
MMBT6428L		50	0.2	250	650	100	
BC817-16L	BC807-16L	45	0.5	100	250	100	
BC817-25L	BC807-25L	45	0.5	160	400	100	
BC817-40L	BC807-40L	45	0.5	250	600	100	
BC847AL		45	0.1	110	220	100	
BC847BL		45	0.1	200	450	100	
BC847CL		45	0.1	420	800	100	
BC850BL		45	0.1	200	450	100	
BC850CL		45	0.1	420	800	100	
	BC857AL	45	0.1	125	250	100	
	BC857BL	45	0.1	220	475	100	
	BC857CL	45	0.1	420	800	100	
BCX19L		45	0.5	100	600		
MMBT2222AL		40	0.6	100	300	300	
MMBT3904L		40	0.2	100	300	300	
	MMBT3906L	40	0.2	100	300	250	
MMBT4401L		40	0.6	100	300	250	
	MMBT4403L	40	0.6	100	300	200	
	MMJT350	300	0.5	30	240		SOT-223
PZTA42	PZTA92	300	0.5	25		50	
BCP56	BCP53	80	1.5	40	250		
BCP56-10	BCP53-10	80	1.5	63	160		
BCP56-16	BCP53-16	80	1.5	100	250		
	PZT2907A	60	0.6	100	300	200	
PZT651	PZT751	60	2	40		75	
PZT2222A		40	0.6	100	300	300	
PZT3904		40	0.2	100	300	300	

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

DARLINGTON TRANSISTORS

NPN	PNP	$V_{(BR)CEO}$ Min (V)	I_C Max (A)	h_{FE} Min	h_{FE} Max	f_T Min (MHz)	Package(s)
MPSA27		60	0.5	10k		125	TO-92
MPSA29		100	0.5	10k		125	
BC373		80	1	10k	160k	100	
BSP52		80	1	2k			SOT-223
MJD112	MJD117	100	2	1k	12k	25	DPAK
NJD35N04		350	4	2k		90	
MJD122	MJD127	100	8	1k	12k	4	
MJD44E3		80	10	1k			
BUB323Z		350	10	500	3400	2	D2PAK

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

LOW SATURATION VOLTAGE TRANSISTORS

	NPN	PNP	V _{(BR)CEO} Min (V)	I _C Peak Max (mA)	h _{FE} Min	h _{FE} Max	f _T Min (MHz)	V _{CE(sat)} @ 1.0 A Max (V)	Package(s)
Single	NSS1C201L		100	3	120	360	100	0.105	SOT-23
		NSS1C200L	100	3	120	360	100	0.115	
	NSS60201L		60	4	200	500	150	0.07	
		NSS60200L	60	4	200	500	100	0.095	
	NSS40201L		40	4	200	500	150	0.06	
		NSS40200L	40	4	250	500	100	0.095	
	NSS1C210MZ4		100	3	100	300	100	0.12	SOT-223
		NSS1C200MZ4	100	3	100	300	100	0.14	
	NSS60601MZ4		60	12	120	360	100	0.06	
		NSS60600MZ4	60	12	120	360	100	0.07	
	NSS40301MZ4		40	5	200	500	200	0.05	
		NSS40300MZ4	40	5	200	500	100	0.05	
Dual	NSS40601CF8		40	7	200	500	100	0.1	ChipFET
		NSS40600CF8	40	7	200	500	100	0.1	
	NSS40301MD08		40	4	200	500	100	0.06	SOIC-8
		NSS40300MD08	40	4	200	500	100	0.08	

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

BIPOLAR POWER TRANSISTORS

NPN	PNP	I _C Max (mA)	V _{(BR)CEO} Min (V)	h _{FE} Min	h _{FE} Max	f _T Min (MHz)	P _D Watts	Package(s)
NJT4031N	NJT4030P	3	40	200	500	100	2	SOT-223
NJD2873		2	50	120	360	65	15	DPAK
	NJD1718	2	50	40	240	80	15	
MJD31C	MJD32C	3	100	10	50	3	15	
MJD148		4	45	85	375	3	20	
MJD243	MJD253	4	100	40	180	40	12.5	
MJD41C	MJD42C	6	100	15	75	3	20	
MJD44H11	MJD45H11	8	80	60			20	
MJD3055	MJD2955	10	60	20	100	2	20	
MJB41C	MJB42C	6	100	15	75	3	65	D2PAK
MJB44H11	MJB45H11	8	80	60			50	

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

IGBTs

Device	Current	Clamp Voltage	V _{CE(on)} @ I _C = 10A V _{GE} = 4.5 V; T _J = 25°C	Logic Level	ESD protected	Hi Pulse Current Capability	Package(s)
NGD8201N	20 A	400 V	1.3 V	yes	yes	yes	DPAK
NGB8202N	20 A	400 V	1.3 V	yes	yes	yes	D2PAK
NGB8207N	20 A	360 V	1.5 V	Yes	Yes	Yes	D2PAK
NGD8205N	20 A	350 V	1.3 V	yes	yes	yes	DPAK
NGB8206N	20 A	350 V	1.3 V	yes	yes	Yes	D2PAK
NGD18N40CLB	18 A	400 V	2.0 V	Yes	Yes	Yes	DPAK
NGB8204N	18 A	400 V	2.0 V	yes	yes	yes	D2PAK
NGB18N40CLB	18 A	400 V	2.0 V	yes	yes	yes	D2PAK
NGB15N41CL	15 A	410 V	2.1 V	yes	yes	yes	D2PAK
NGD15N41CL	15 A	410 V	1.9 V	yes	yes	yes	DPAK

NOTE: All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details. ‡ See data sheet for details.

SCHOTTKY RECTIFIERS

Device	V _{RRM} (V)	I _{O(rec)} (A)	V _F Max (V)	I _R Max (mA)	I _{FSM} (A)	AEC-PPAP	Package(s)
MBRD620CT	20	6	0.9	0.1	75	Note 1	DPAK
MBR0530	30	0.5	0.43	0.13	5.5	Note 1	SOD-123
MBRS130L	30	1	0.395	1.0	40	Note 1	SMB
MBRD1035CTL	35	10	0.56	2.0	50	Note 1	DPAK
MBR140SF	40	1	0.55	0.5	30	Note 1	SOD-123 FL
MBRA140	40	1	0.55	0.5	30	Note 2	SMA
MBRS140	40	1	0.6	1.0	40	Note 1	SMB
MBRA340	40	3	0.45	0.3	100	Note 1	SMA
MBRS1540	40	1.5	0.46	0.8	40	Note 1	SMB
MBRS2040L	40	2	0.43	0.8	70	Note 1	SMB
MBRS240L	40	2	0.43	2.0	25	Note 1	SMB
MBRD340	40	3	0.6	0.2	75	Note 1	DPAK
MBRS340	40	3	0.5	2.0	80	Note 1	SMC
MBRS540	40	5	0.5	0.3	190	Note 1	SMC
MBRD640CT	40	6	0.9	0.1	75	Note 1	DPAK
MBRB1045	45	10	0.84	0.1	150	Note 1	D2PAK
MBRD1045	45	10	0.57	0.1	70	Note 1	DPAK
MBRB1545CT	45	15	0.84	0.1	150	Note 1	D2PAK
MBRB1645	45	16	0.63	0.2	150	Note 2	D2PAK
MBRB2545CT	45	30	0.82	0.2	150	Note 2	D2PAK
MBRD350	50	3	0.6	0.2	75	Note 1	DPAK
MBRD650CT	50	6	0.7	0.1	75	Note 1	DPAK
MBRA160	60	1	0.51	0.2	60	Note 1	SMA
MBRS160	60	1	0.63	0.2	60	Note 1	SMB
MBRS360	60	3	0.74	0.15	125	Note 1	SMC
MBRD360	60	3	0.6	0.2	75	Note 1	DPAK
MBRD660CT	60	6	0.7	0.1	75	Note 1	DPAK
MBRB2060CT	60	20	0.95	0.2	150	Note 2	D2PAK
MBRB30H60CT	60	30	0.62	0.3	260	Note 1	D2PAK
MBRS190	90	1	0.75	0.5	50	Note 1	SMB
MBRM1H100	100	1	0.76	0.02	50	Note 1	POWERMITE®
MBR1H100SF	100	1	0.76	0.04	50	Note 1	SOD-123 FL
MBRA1H100	100	1	0.76	0.04	50	Note 1	SMA
MBRS1100	100	1	0.75	0.5	50	Note 1	SMB
MBRM2H100	100	2	0.84	0.02	50	Note 1	POWERMITE
MBR2H100SF	100	2	0.84	0.04	50	Note 1	SOD-123 FL
MBRA2H100	100	2	0.79	0.008	130	Note 1	SMA
MBRS2H100	100	2	0.79	0.008	130	Note 1	SMB
MBRS3100	100	3	0.79	0.050	130	Note 1	SMC
MBRD5H100	100	5	0.71	0.0035	105	Note 2	DPAK
MBRB8H100	100	8	0.71	0.0045	250	Note 2	D2PAK
MBRB20100CT	100	20	0.95	0.1	150	Note 2	D2PAK
MBRS3200	200	3	0.84	1.0	100	Note 1	SMB
MBRS3201	200	3	0.84	1.0	100	Note 1	SMC
MBRS4201	200	4	0.86	1.0	100	Note 2	SMC
MBRB20200CT	200	20	1.0	1.0	150	Note 2	D2PAK

NOTE 1: Devices are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

NOTE 2: Contact ON Semiconductor for AEC and PPAP status.

POWERMITE is a registered trademark of and used under a license from Microsemi Corporation.

ULTRAFAST RECTIFIERS

Device	V _{RRM} (V)	I _{O(rec)} (A)	V _F Max (V)	I _R Max (μA)	I _{FSM} (A)	t _{rr} Max (ns)	AEC-PPAP	Package(s)
MURA110	100	1	0.875	2.0	50	30	Note 1	SMA
MURS110	100	1	0.875	2.0	40	35	Note 1	SMB
MURA210	100	2	0.94	2.0	50	30	Note 1	SMA
MURS210	100	2	0.94	2.0	50	30	Note 1	SMB
MURA120	200	1	0.875	2.0	40	35	Note 1	SMA
MURS120	200	1	0.875	2.0	40	35	Note 1	SMB
MURA220	200	2	0.95	2.0	40	35	Note 1	SMA
MURS220	200	2	0.95	2.0	40	25	Note 1	SMB
MURD320	200	3	0.95	5.0	75	35	Note 1	DPAK
MURS320	200	3	0.875	5.0	75	35	Note 2	SMC
MSRD620CT	200	6	1.15	5.0	50	45	Note 1	DPAK
MSRD620CTR	200	6	1.3	1.0	45	75	Note 1	DPAK
MURD620CT	200	6	1.2	5.0	63	35	Note 1	DPAK
MURB1620CTR	200	16	1.2	5.0	100	85	Note 1	D2PAK
MURB1620CT	200	16	0.975	5.0	100	35	Note 1	D2PAK
MURF1620CT	200	16	0.975	5.0	100	25	Note 2	TO-220 FP
MURD530	300	5	1.05	5.0	75	50	Note 1	DPAK
MURA140	400	1	1.1	5.0	35	65	Note 1	SMA
MURS160	600	1	1.25	5.0	35	75	Note 2	SMB
MURHS160	600	1	2.4	20.0	15	35	Note 2	SMB
MURS360	600	3	1.25	10.0	75	75	Note 2	SMC
MURHD560	600	5	2.7	10.0	50	30	Note 2	DPAK

NOTE 1: Devices are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

NOTE 2: Contact ON Semiconductor for AEC and PPAP status.

Self-Protected MOSFETs

Type	Device	Clamp V _{DSS} (V) (Typ)	R _{DS(on)} V _{GS} =10 V @ 25°C (mΩ)	Thermal Protect V _{GS} = 5 V off	ID Limit V _{GS} =5 V; 25°C/150°C (Typ)	ESD (HBM)	Single Pulse Avalanche Energy (mJ)	Package(s)
Clamping	NID9N05CL	55	90	9 (Max)	N	5 kV	160	DPAK
	NCV8440	55	95	2.6 (Max)	N	5 kV	110	SOT-223
Low Side	NCV8405	46	90	9 / 5	175°C	4 kV	300	SOT-223
	NCV8401	46	23	30 / 16	175°C	4 kV	800	DPAK
	NCV8402	46	165	4.7 / 3.2	175°C	4 kV	150	SOT-223
	NCV8402D	46	165	4.3 / 3.0	175°C	4 kV	150	SOIC-8
	NCV8403	46	53	15 / 10	175°C	4 kV	470	DPAK, SOT-223
	NID6002N	65	185	6.4 / 5.5	175°C	8 kV	143	DPAK
	NCV8450	52	1000	0.8 / 0.5	175°C	5 kV	29	SOT-223

All devices in this table are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

MOSFETs

Device	Polarity	Configuration	V _{(BR)DSS} Min (V)	R _{DS(on)} Max (mΩ)	Q _g Typ (nC)	I _D Max (A)	P _D Max (W)	AEC-PPAP	Package(s)
NTJD4401N	N Channel	Dual	20	375	1.3	0.63	0.27	Note 1	SC-88
NTR4501	N Channel	Single	20	80	2.4	3.2	1.25	Note 1	SOT-23
MGSF2N02EL	N Channel	Single	20	85	3.5	2.8	1.25	Note 1	SOT-23
MGSF1N02L	N Channel	Single	20	90		0.75	0.4	Note 1	SOT-23
MMBF2201N	N Channel	Single	20	1000		0.3	0.15	Note 1	SC-70
MMBF0201NL	N Channel	Single	20	1000	1.4	0.3	0.225	Note 1	SOT-23
NTA4001N	N Channel	Single	20	1500		0.238	0.3	Note 1	SC-75
NTR4101	P Channel	Single	20	85	7.5	3.2	0.73	Note 1	SOT-23
NTR1P02	P Channel	Single	20	180	2.5	1	0.4	Note 1	SOT-23
NTR1P02LT1	P Channel	Single	20	220	5.5	1.3	0.4	Note 1	SOT-23
NTR0202PL	P Channel	Single	20	800	2.18	0.4	0.225	Note 1	SOT-23
NTNUS3171PZ	P Channel	Single	20	3500		0.14	0.125	Note 1	SOT-1123
NTD110N02R	N Channel	Single	24	4.6	23.6	110	92.5	Note 1	DPAK
NTD4855N	N Channel	Single	25	4.3	24.4	98	2.24	Note 2	DPAK
NTD4856N	N Channel	Single	25	4.7	17.9	89	2.14	Note 2	DPAK
NTD4857N	N Channel	Single	25	5.7	16	78	2.1	Note 2	DPAK
NTD4858N	N Channel	Single	25	6.2	12.8	73	2	Note 2	IPAK
NTD4860N	N Channel	Single	25	7.5	10.8	12.6	2	Note 2	IPAK
NTD70N03R	N Channel	Single	25	8	13.2	72	62.5	Note 1	DPAK
NTD4863N	N Channel	Single	25	10.2	8.8	49	1.95	Note 2	IPAK
NTD40N03R	N Channel	Single	25	16.5	5.78	45	50	Note 1	DPAK
NTD14N03R	N Channel	Single	25	95	1.8	14	20.8	Note 1	DPAK
NTJS4405N	N Channel	Single	25	350	0.75	1.2	0.63	Note 1	SC-88
NTS4409NT1G	N Channel	Single	25	350	1.2	0.75	0.33	Note 1	SC-70
NTMD4820N	N Channel	Dual	30	20	7.7	6.4	1.28	Note 1	SOIC-8
NTMD4840N	N Channel	Dual	30	24	5.2	5.5	1.14	Note 1	SOIC-8
NTMD6N03	N Channel	Dual	30	32	19	6	2	Note 1	SOIC-8
NT4N03	N Channel	Dual	30	60	8	4	2	Note 1	SOIC-8
NTJD4001N	N Channel	Dual	30	1500	0.9	0.25	0.272	Note 1	SC-88
NTMFS4833N	N Channel	Single	30	2	39	191	125	Note 2	SO-8FL
NTMFS4845	N Channel	Single	30	2.9	25.6	115	62.5	Note 2	SO-8FL
NTMFS4834N	N Channel	Single	30	3	32	130	86.2	Note 2	SO-8FL
NTMFS4846	N Channel	Single	30	3.4	21.8	100	55.5	Note 2	SO-8FL
NTMFS4835N	N Channel	Single	30	3.5	22	104	62.5	Note 2	SO-8FL
NTD4804N	N Channel	Single	30	4	30	117	93.75	Note 1	DPAK
NTMFS4836N	N Channel	Single	30	4	20	90	55.6	Note 2	SO-8FL
NTMFS4847N	N Channel	Single	30	4.1	19.2	85	48.1	Note 2	SO-8FL
NTD4805N	N Channel	Single	30	5	20.5	88	66	Note 1	DPAK
NTMFS4837NH	N Channel	Single	30	5	15.9	75	48	Note 2	SO-8FL
NTMFS4839NH	N Channel	Single	30	5.5	12.9	64	42.4	Note 2	SO-8FL
NTMS4802N	N Channel	Single	30	5.5	36	15	1.66	Note 1	SOIC-8
NTMFS4851	N Channel	Single	30	5.9	13.5	66	41.7	Note 2	SO-8FL
NTD4806N	N Channel	Single	30	6	15	76	60	Note 1	DPAK

NOTE 1: Devices are AEC-Qualified and PPAP-Capable. Contact ON Semiconductor for details.

NOTE 2: Contact ON Semiconductor for AEC and PPAP status. * Pending 1H11 Micro8 is a trademark of International Rectifier. FETKY is a registered trademark of International Rectifier.

MOSFETs

Device	Polarity	Configuration	V _{(BR)DSS} Min (V)	R _{DS(on)} Max (mΩ)	Q _g Typ (nC)	I _D Max (A)	P _D Max (W)	AEC-PPAP	Package(s)
NTMS4807N	N Channel	Single	30	6.1	24	12.2	0.86	Note 1	SOIC-8
NVMFS4841N	N Channel	Single	30	7	11.5	89	112	Note 1	SO-8FL
NTD4808N	N Channel	Single	30	8	11.3	63	54.6	Note 1	DPAK
NTD4809N	N Channel	Single	30	9	11	58	52	Note 1	DPAK
NTD4809NH	N Channel	Single	30	9	12.5	58	52	Note 1	DPAK
NTD4302	N Channel	Single	30	10	55	18.5	5	Note 1	DPAK
NTD4810N	N Channel	Single	30	10	9.2	54	50	Note 1	DPAK
NTMS4816N	N Channel	Single	30	10	9.2	9	1.37	Note 1	SOIC-8
NVTF54823N	N Channel	Single	30	10.5	6	30	21	Note 1	u8FL
NTMS4801N	N Channel	Single	30	12.5	12.2	9.9	1.41	Note 1	SOIC-8
NTD4813N	N Channel	Single	30	13	6.9	40	35.3	Note 1	DPAK
NTD4813NH	N Channel	Single	30	13	7.1	40	35.3	Note 1	DPAK
NTMS4872N	N Channel	Single	30	13.5	10	10.2	2.4	Note 1	SOIC-8
NTD4815N	N Channel	Single	30	15	6	35	32.6	Note 1	DPAK
NTD20N03L27	N Channel	Single	30	27	13.8	20	74	Note 1	DPAK
NTMS4800N	N Channel	Single	30	27	7.7	6.4	1.29	Note 1	SOIC-8
MGSF1N03L	N Channel	Single	30	100		1.6	0.42	Note 1	SOT-23
NTR4503N	N Channel	Single	30	140	3.6	2.5	0.73	Note 1	SOT-23
NTS4001N	N Channel	Single	30	1500	0.9	0.27	0.33	Note 1	SC-70
NTR4003N	N Channel	Single	30	1500	1.15	0.56	0.83	Note 1	SOT-23
NTA7002N	N Channel	Single	30	7000		0.154	0.3	Note 1	SC-75
NTMD3P03	P Channel	Dual	30	85	16	3.05	2	Note 1	SOIC-8
MTB50P03HDL	P Channel	Single	30	25	74	50	125	Note 1	D2PAK
NTD25P03L	P Channel	Single	30	72	15	25	75	Note 1	DPAK
NTF5P03T3	P Channel	Single	30	100	15	5	3.13	Note 1	SOT-223
NTR4502P	P Channel	Single	30	200	6	1.95	1.25	Note 1	SOT-23
NVD5890N	N Channel	Single	40	3.7	75	100	93.75	Note 1	DPAK
NTD5802N	N Channel	Single	40	4.4	75	101	93.75	Note 1	DPAK
NTB5404N	N Channel	Single	40	4.5	125	136	167	Note 1	D2PAK
NVD5803N	N Channel	Single	40	5.7	51	85	83	Note 1	DPAK
NTB5405N	N Channel	Single	40	5.8	88	116	150	Note 1	D2PAK
NVTF55811NL	N Channel	Single	40	6.7	17	40	21	Note 1	u8FL
NTD5803N	N Channel	Single	40	7.2	51	75	83	Note 1	DPAK
NTD5804N	N Channel	Single	40	8.5	45	69	71	Note 1	DPAK
NTD5805N	N Channel	Single	40	9.5	33	51	47	Note 1	DPAK
NTD5406N	N Channel	Single	40	10	45	70	100	Note 1	DPAK
NTD5806N	N Channel	Single	40	19	17	33	39	Note 1	DPAK
NTD5407N	N Channel	Single	40	26	20	38	75	Note 1	DPAK
NTD5807N	N Channel	Single	40	31	12.6	23	33	Note 1	DPAK
BSS138L	N Channel	Single	50	3500		0.2	0.225	Note 1	SOT-23
BSS84L	P Channel	Single	50	10000		0.13	0.225	Note 1	SOT-23
NVD5862N	N Channel	Single	60	5.7	82	98	115	Note 1	DPAK
NVD5863NL *	N Channel	Single	60	8.2	66	73	96	Note 1	DPAK
NTB5411N	N Channel	Single	60	10	92	80	166	Note 1	D2PAK

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MOSFETs

Device	Polarity	Configuration	V _{(BR)DSS} Min (V)	R _{DS(on)} Max (mΩ)	Q _g Typ (nC)	I _D Max (A)	P _D Max (W)	AEC-PPAP	Package(s)
NVTF55820NL	N Channel	Single	60	11.5	28	29	21	Note 1	u8FL
NVD5865NL	N Channel	Single	60	16	29	38	49	Note 1	DPAK
NVTF55826NL	N Channel	Single	60	24	8.3	20	22	Note 1	u8FL
NTD5413N	N Channel	Single	60	26	35	30	68	Note 1	DPAK
NTD32N06L	N Channel	Single	60	28	23	32	93.75	Note 1	DPAK
NTD5414N	N Channel	Single	60	37	25	24	55	Note 1	DPAK
NVD5867NL	N Channel	Single	60	39	15	22	43	Note 1	DPAK
NTD24N06	N Channel	Single	60	42	24	24	62.5	Note 1	DPAK
NTD24N06L	N Channel	Single	60	45	16	24	62.5	Note 1	DPAK
NTD20N06	N Channel	Single	60	46	21.2	20	60	Note 1	DPAK
NTD20N06L	N Channel	Single	60	48	16.6	20	60	Note 1	DPAK
NTD18N06	N Channel	Single	60	60	15.3	18	55	Note 1	DPAK
NTD3055-094	N Channel	Single	60	94	10.9	12	48	Note 1	DPAK
NTB18N06L	N Channel	Single	60	100	7.3	15	48.4	Note 1	D2PAK
NTF3055-100	N Channel	Single	60	100	10.6	3	2.1	Note 1	SOT-223
NTD3055L104	N Channel	Single	60	104	7.4	12	48	Note 1	DPAK
NTF3055L108	N Channel	Single	60	120	7.6	3	2.1	Note 1	SOT-223
NTD3055-150	N Channel	Single	60	150	7.1	9	28.8	Note 1	DPAK
NTD3055L170	N Channel	Single	60	170	4.7	9	28.8	Note 1	DPAK
NTF3055L175	N Channel	Single	60	175	5.1	2	2.1	Note 1	SOT-223
MMBF170L	N Channel	Single	60	5000		0.5	0.225	Note 1	SOT-23
2N7002L	N Channel	Single	60	7500		0.115	0.3	Note 1	SOT-23
NVTF55116PL	P Channel	Single	60	52	14	14	21	Note 1	u8FL
MTB30P06V	P Channel	Single	60	80	54	30	125	Note 1	D2PAK
NTB5605P	P Channel	Single	60	140	13	18.5	88	Note 1	D2PAK
NTD20P06L	P Channel	Single	60	150	15	15.5	65	Note 1	DPAK
NTF2955	P Channel	Single	60	170	14.3	2.6	1	Note 1	SOT-223
NTD2955	P Channel	Single	60	180	15	12	55	Note 1	DPAK
MTD5P06V	P Channel	Single	60	450	12	5	40	Note 1	DPAK
NTB6410AN	N Channel	Single	100	13	120	76	188	Note 1	D2PAK
NTB6411AN	N Channel	Single	100	14	100	72	188	Note 1	D2PAK
NTB6412AN	N Channel	Single	100	18.2	73	58	187	Note 1	D2PAK
NTB6413AN	N Channel	Single	100	28	51	42	136	Note 1	D2PAK
NTD6414AN	N Channel	Single	100	37.6	40	32	75	Note 1	DPAK
NTD6415AN	N Channel	Single	100	55	29	23	63	Note 1	DPAK
NTD6415ANL	N Channel	Single	100	56	35	23	83	Note 1	DPAK
NTD6416ANL	N Channel	Single	100	74	25	19	71	Note 1	DPAK
NTD6416AN	N Channel	Single	100	81	20	17	54	Note 1	DPAK
BSS123L	N Channel	Single	100	6000		0.17	0.225	Note 1	SOT-23

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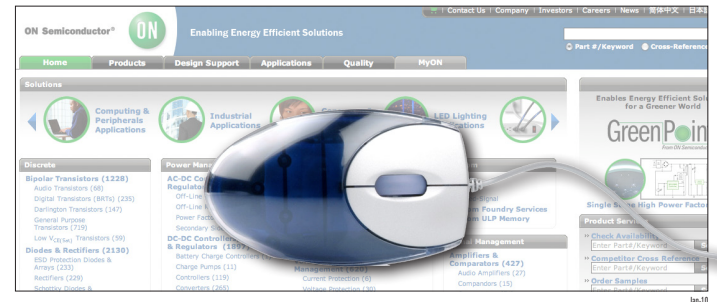
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