

# ST MICROELECTRONICS Power Management ICs



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## DARLINGTON ARRAYS

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STMicroelectronics Part No.	Package Type	Output Voltage (V)	Output Leakage Current		VCE (SAT)		Description	Operating Temperature Range (°C)	Price Each		
				Max. (µA)	VCE (V)	Max. (V)	@ I <sub>C</sub> (A)			1	10	100
◆ 511-ULG2003D1013TR	ULG2003D13TR	SO-16	50	50	50	1.1	0.1	Seven NPN darlington pairs	-40 to +105	.75	.629	.406
◆ 511-ULN2003A	ULN2003A	DIP-16	50	50	50	1.6	0.35	Seven NPN darlington pairs	-20 to +85	.50	.415	.253
◆ 511-ULN2004D1013TR	ULN2004D13TR	SO-16	50	50	50	1.6	0.35	Seven NPN darlington pairs	-20 to +85	.40	.336	.205
◆ 511-ULN2801A	ULN2801A	DIP-18	50	50	50	1.6	0.35	Eight NPN darlington pairs	-20 to +85	1.08	.924	.71
◆ 511-ULN2064B	ULN2064B	PDIP-16	50	100	50	1.4	1.25	Four NPN darlington switches	-20 to +85	2.73	2.32	1.86
◆ 511-ULN2068B	ULN2068B	PDIP-16	50	100	50	1.4	1.25	Four NPN darlington switches	-20 to +85	2.69	2.17	1.74
◆ 511-ULN2002A	ULN2002A	DIP-16	50	500	50	1.6	0.35	Seven NPN darlington pairs	-20 to +85	.70	.589	.38
◆ 511-ULN2002D1013TR	ULN2002D1013TR	SO-16	50	500	50	1.6	0.35	Seven NPN darlington pairs	-20 to +85	.50	.422	.257
◆ 511-ULN2004A	ULN2004A	DIP-16	50	500	50	1.6	0.35	Seven NPN darlington pairs	-20 to +85	.47	.394	.24
◆ 511-ULN2802A	ULN2802A	DIP-18	50	500	50	1.6	0.35	Eight NPN darlington pairs	-20 to +85	.95	.817	.628
◆ 511-ULN2804A	ULN2804A	DIP-18	50	500	50	1.6	0.35	Eight NPN darlington pairs	-20 to +85	1.08	.924	.71
◆ 511-ULN2065B	ULN2065B	PDIP-16	80	100	80	1.5	1.5	Four NPN darlington switches	-20 to +85	2.79	2.37	1.90

## VOLTAGE COMPARATORS

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STMicroelectronics Part No.	Package Type	Single, Dual, Quad	Input Offset Voltage (Max.) (mV)	Input Bias Current (Max.)	Response Time (Typ.) (ns)	Supply Currents (Typ./Max.) (mA)		Operating Temperature Range (°C)	Price Each		
							Positive	Negative		1	10	100
<b>General Purpose</b>												
◆ 511-LM311DT	LM311DT	SO-8	Single	7.5	250nA	200	5.1/7.5	4.1/5.0	-65 to +150	.36	.275	.149
<b>High Speed</b>												
◆ 511-TS3021ICT	TS3021ICT	SC-70-5	Single	6	160nA	48	0.073/0.09	-/-	0 to +70	1.18	1.00	.774
◆ 511-TS3021ILT	TS3021ILT	SOT-23-5	Single	6	160nA	48	0.073/0.09	-/-	0 to +70	1.56	1.33	1.02
◆ 511-TS3011ILT	TS3011ILT	SOT-23-5	Single	8	0.1nA	-	0.52/0.64	0.65/0.88	-40 to +125	2.53	2.15	1.72
<b>Low Current Nanopower</b>												
◆ 511-TS881ICT	TS881ICT	SC-70-5	Single	6	100pA	100	-/-	-/-	-40 to +125	.87	.75	.576
◆ 511-TS882IST	TS882IST	MiniSO-8	Dual	6	100pA	100	1.1/5.5	-/-	-40 to +125	1.06	.907	.697
<b>Low Power Low Voltage</b>												
◆ 511-TS391IL	TS391IL	SOT-23-5L	Single	5	250nA	1300	0.2/0.5	-/-	-40 to +125	.54	.448	.273
◆ 511-LMV331ILT	LMV331ILT	SOT-23-5	Single	7	250nA	-	0.02/0.1	-/-	-40 to +85	.41	.343	.209
◆ 511-LM293ADT	LM293ADT	SO-8	Dual	2	250nA	1300	0.4/1.0	-/-	-40 to +105	.38	.292	.158
◆ 511-LM393ADT	LM393ADT	SO-8	Dual	2	250nA	1300	0.4/1.0	-/-	0 to +70	.47	.334	.153
◆ 511-LM193DT	LM193DT	SOIC-8	Dual	5	250nA	1300	0.45/1.0	-/-	-55 to +125	.58	.484	.312
◆ 511-LM239QT	LM239QT	QFN-16	Quad	5	25nA	1300	1.1/2.0	-/-	-40 to +105	.43	.328	.178
◆ 511-LM139DT	LM139DT	SOP-14	Quad	5	250nA	1300	1.1/2.0	-/-	-55 to +125	.58	.484	.312
◆ 511-LM239DT	LM239DT	SO-14	Quad	5	250nA	1300	1.3/2.5	-/-	-40 to +105	.42	.30	.138
◆ 511-LM339PT	LM339PT	TSSOP-14	Quad	5	250nA	1300	1.3/2.5	-/-	0 to +70	.44	.312	.143
◆ 511-TSX3704IDT	TSX3704IDT	SO-14	Quad	6	120pA	2700	0.08/0.09	-/-	-40 to +125	1.10	.946	.727
◆ 511-LM2901YPT	LM2901YPT	TSSOP-14	Quad	7	250nA	500	1.3/2.5	-/-	-40 to +125	.40	.306	.166
◆ 511-LM2901P	LM2901P	TSSOP-14	Quad	7	250nA	1300	1.1/2.0	-/-	-40 to +125	.34	.266	.144
<b>Rail-to-Rail High Speed</b>												
◆ 511-TS3011YLT	TS3011YLT	SOT23-5	Single	7	20pA	8	0.52/0.64	0.65/0.88	-40 to +125	2.74	2.32	2.01
<b>Rail-to-Rail Micropower</b>												
◆ 511-TS7221A1ILT	TS7221A1ILT	SOT23-5	Single	7	300pA	500	0.006/0.012	0.008/0.014	-40 to +105	1.33	1.14	.877
◆ 511-TS332IQ2T	TS332IQ2T	DFN-8	Dual	6	100nA	-	1.6/5.0	-/-	-40 to +125	.86	.719	.464
<b>Rail-to-Rail Nanopower</b>												
◆ 511-TS881ILT	TS881ILT	SOT-23-5	Single	6	100pA	-	-/-	-/-	-40 to +125	.62	.518	.334
◆ 511-TS884IDT	TS884IDT	SO-14	Quad	6	100pA	-	-/-	-/-	-40 to +125	1.60	1.29	1.03
◆ 511-TS884IPT	TS884IPT	TSSOP-14	Quad	6	100pA	-	-/-	-/-	-40 to +125	1.60	1.29	1.03
<b>Micropower</b>												
◆ 511-TS331QIT	TS331QIT	DFN-6	Single	5	100nA	310	0.03/0.033	-/-	-40 to +125	.80	.666	.43
◆ 511-TS861IL	TS861IL	SOT-23-5L	Single	7	0.3nA	500	0.006/0.012	-/-	-40 to +85	.73	.614	.396
◆ 511-TSX393IQ2T	TSX393IQ2T	DFN-8	Single	5	1pA	2500	0.07/0.011	-/-	-40 to +125	.98	.84	.645
◆ 511-TSX393IST	TSX393IST	MiniSO-8	Dual	5	1pA	2500	0.07/0.011	-/-	-40 to +125	.86	.739	.568
◆ 511-TSX3702IDT	TSX3702IDT	SO-8	Dual	5	10pA	2800	0.005/0.006	0.008/0.009	-40 to +125	.73	.608	.392
◆ 511-TSX3702IQ2T	TSX3702IQ2T	DFN-8	Dual	5	10pA	2800	0.005/0.006	0.008/0.009	-40 to +125	.83	.714	.548
◆ 511-TS332IDT	TS332IDT	SO-8	Dual	6	100nA	210	0.02/0.026	-/-	-40 to +85	.84	.704	.454
◆ 511-TS3704IDT	TS3704IDT	SO-14	Quad	5	0.6nA	1200	0.036/0.08	-/-	-40 to +125	.75	.626	.404
◆ 511-TS3704IP	TS3704IPT	TSSOP-14	Quad	5	0.6nA	1200	0.036/0.08	-/-	-40 to +125	.75	.623	.402
◆ 511-TS334IPT	TS334IPT	TSSOP-14	Quad	6	100nA	210	-/0.038	-/-	-40 to +85	1.09	.882	.677

## DOOR ACTUATOR DRIVERS

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STMicroelectronics Part No.	Package Type	Operating Voltage (V)	Supply Current (mA)	Frequency (kHz)	Standby Current (µA)	Supply Voltage (Max.) (V)	Operating Temperature Range (°C)	Price Each		
									1	10	100
◆ 511-L99DZ80EPTR	L99DZ80EPTR	TQFP-64	5.5	10	125	6	28	-40 to +150	11.76	10.81	9.13
◆ 511-L99DZ81EPTR	L99DZ81EPTR	TQFP-64	5	10	50	4	28	-40 to +150	11.38	10.24	8.42

## ADVANCED POWER MANAGEMENT SYSTEM

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STMicroelectronics Part No.	Package Type	Supply Voltage (Max.) (V)	Supply Current (mA)	Description	Operating Temperature Range (°C)	Price Each		
							1	10	100
◆ 511-L99PM72GXPTR	L99PM72GXPTR	PowerSSO-36	18	250	Embedded LIN and High Speed CAN Trans.	-40 to +150	6.41	5.77	4.74

## MULTIFUNCTION IC

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STMicroelectronics Part No.	Package Type	Supply Voltage (V)	Supply Current (µA)	Description	Operating Temperature Range (°C)	Price Each		
							1	10	100
◆ 511-L9779WD-SPI	L9779WD-SPI	HIQUAD-64	5.1	550	Engine Management System IC	-40 to +125	12.59	11.58	9.78

## LNB SWITCHING SUPPLY ICs

◆ Surface Mount Device

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STMicroelectronics Part No.	Package Type	Input Voltage Range (V)	Supply Voltage (Max.) (V)	Output Current (Max.) (mA)	Typical Efficiency (%)	Application	Operating Temperature Range (°C)	Price Each		
									1	10	100
◆ 511-LNBH29EPTR	LNBH29EPTR	QFN-16 3x3	-0.3 to 40	17.5	750	93	Satellite Receivers	-25 to +125	2.13	1.81	1.45
◆ 511-LNBH29EQTR	LNBH29EQTR	QFN-16 4x4	-0.3 to 40	17.5	750	93	Satellite Receivers	-25 to +125	2.17	1.75	1.40
◆ 511-LNBH29PTR	LNBH29PTR	QFN-16 3x3	-0.3 to 40	17.5	750	93	Satellite Receivers	-25 to +125	2.13	1.81	1.45
◆ 511-LNBH29QTR	LNBH29QTR	QFN-16 4x4	-0.3 to 40	17.5	750	93	Satellite Receivers	-25 to +125	2.40	1.94	1.55