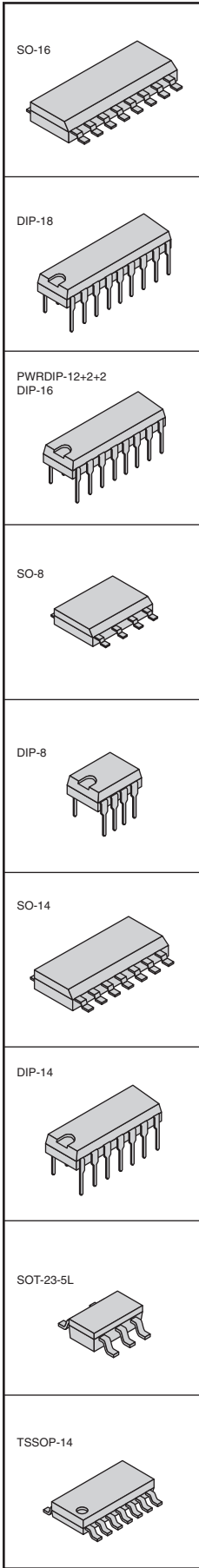


Products may be RoHS compliant.  
Check mouser.com for RoHS status.



## STMICROELECTRONICS DARLINGTON ARRAYS

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.	STM Part No.	Package Type	Description	Output Voltage (V)	Output Leakage Current		Temperature Range (°C)	VCE (SAT)		Price Each		
					Max (uA)	VCE (V)		Max (V)	@IC (A)	1	10	100
<b>Surface Mount</b>												
<a href="#">511-ULN2004D1013TR</a>	ULN2004D13TR	SO-16	Seven NPN darlington pairs	50	500	50	-20 to +85	1.6	0.35	.73	.615	.529
<a href="#">511-ULQ2003D1013TR</a>	ULQ2003D13TR	SO-16	Seven NPN darlington pairs	50	50	50	-40 to +105	1.1	0.1	.93	.675	.592
<b>Thru Hole</b>												
<a href="#">511-L603C</a>	L603C	DIP-18	Eight NPN darlington pairs	90	10	90	-20 to +150	2	0.3	1.96	1.76	1.49
<a href="#">511-ULN2002A</a>	ULN2002A	DIP-16	Seven NPN darlington pairs	50	500	50	-20 to +85	1.6	0.35	.59	.526	.461
<a href="#">511-ULN2003A</a>	ULN2003A	DIP-16	Seven NPN darlington pairs	50	50	50	-20 to +85	1.6	0.35	.31	.299	.269
<a href="#">511-ULN2004A</a>	E-ULN2004A	DIP-16	Seven NPN darlington pairs	50	500	50	-20 to +85	1.6	0.35	.59	.526	.454
<a href="#">511-ULN2064B</a>	ULN2064B	PWRDIP-12+2+2	Four NPN darlington switches	50	100	50	-20 to +85	1.4	1.25	2.31	2.20	1.91
<a href="#">511-ULN2065B</a>	ULN2065B	PWRDIP-12+2+2	Four NPN darlington switches	80	100	80	-20 to +85	1.5	1.5	2.31	2.20	1.91
<a href="#">511-ULN2068B</a>	ULN2068B	PWRDIP-12+2+2	Four NPN darlington switches	50	100	50	-20 to +85	1.4	1.25	2.14	2.05	1.78
<a href="#">511-ULN2801A</a>	ULN2801A	DIP-18	Eight NPN darlington pairs	50	50	50	-20 to +85	1.6	0.35	.67	.635	.553
<a href="#">511-ULN2802A</a>	ULN2802A	DIP-18	Eight NPN darlington pairs	50	500	50	-20 to +85	1.6	0.35	.66	.624	.544
<a href="#">511-ULN2804A</a>	ULN2804A	DIP-18	Eight NPN darlington pairs	50	500	50	-20 to +85	1.6	0.35	.98	.86	.686

## STMICROELECTRONICS GENERAL PURPOSE VOLTAGE COMPARATORS

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.	STM Part No.	Package Type	Single Dual Quad	Input Offset Voltage Max (mV)	Input Bias Current Max (nA)	Response Time Typ (ns)	Supply Currents		Operating Temperature Range (°C)	Price Each		
							Positive Typ/Max (mA)	Negative Typ/Max (mA)		1	10	100
<b>Surface Mount</b>												
<a href="#">511-LM211D</a>	LM211D	SO-8	S	3	100	200	5.1/6.0	4.1/5.0	-40 to +105	.47	.43	.38
<a href="#">511-LM311D</a>	LM311D	SO-8	S	7.5	250	200	5.1/7.5	4.1/5.0	-65 to +150	.44	.39	.34
<b>Thru Hole</b>												
<a href="#">511-LM211N</a>	LM211N	DIP-8	S	3	100	200	5.1/6.0	4.1/5.0	-40 to +105	.45	.292	.247
<a href="#">511-LM311N</a>	LM311N	DIP-8	S	7.5	250	200	5.1/7.5	4.1/5.0	-65 to +150	.36	.266	.193

## STMICROELECTRONICS HIGH SPEED VOLTAGE COMPARATORS

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.	STM Part No.	Package Type	Single Dual Quad	Input Offset Voltage Max (mV)	Input Bias Current Max (nA)	Response Time Typ (ns)	Supply Currents		Operating Temperature Range (°C)	Price Each		
							Positive Typ/Max (mA)	Negative Typ/Max (mA)		1	10	100
<b>Surface Mount</b>												
<a href="#">511-LM319D</a>	LM319D	SO-14	D	8	1000	80	8.0/12.5	3.0/5.0	0 to +70	.77	.73	.702
<b>Thru Hole</b>												
<a href="#">511-LM319N</a>	LM319N	DIP-14	D	8	1000	80	8.0/12.5	3.0/5.0	0 to +70	.90	.698	.518

## STMICROELECTRONICS LOW POWER LOW VOLTAGE COMPARATORS

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.	STM Part No.	Package Type	Single Dual Quad	Input Offset Voltage Max (mV)	Input Bias Current Max (nA)	Response Time Typ (ns)	Supply Currents		Operating Temperature Range (°C)	Price Each		
							Positive Typ/Max (mA)	Negative Typ/Max (mA)		1	10	100
<b>Surface Mount</b>												
<a href="#">511-LM239AD</a>	LM239AD	SO-14	Q	2	100	1300	1.3/2.5	----/----	-40 to +105	.62	.47	.43
<a href="#">511-LM339AD</a>	LM339AD	SO-14	Q	2	100	1300	1.3/2.5	----/----	0 to +70	.45	.38	.32
<a href="#">511-LM239D</a>	LM239D	SO-14	Q	5	250	1300	1.3/2.5	----/----	-40 to +105	.20	.19	.17
<a href="#">511-LM339D</a>	LM339D	SO-14	Q	5	250	1300	1.3/2.5	----/----	0 to +70	.54	.39	.37
<a href="#">511-LM339PT</a>	LM339PT	TSSOP-14	Q	5	250	1300	1.3/2.5	----/----	0 to +70	.47	.342	.276
<a href="#">511-TS391IL</a>	TS391ILT	SOT-23-5L	S	5	250	1300	0.2/0.5	----/----	-40 to +125	.77	.56	.473
<a href="#">511-LM293ADT</a>	LM293ADT	SO-8	D	5	250	1300	0.4/1.0	----/----	-40 to +105	.90	.651	.537
<a href="#">511-LM393ADT</a>	LM393ADT	SO-8	D	5	250	1300	0.4/1.0	----/----	0 to +70	.43	.305	.236
<a href="#">511-LM393D</a>	LM393D	SO-8	D	5	250	1300	0.4/1.0	----/----	0 to +70	.44	.39	.34
<a href="#">511-LMV331ILT</a>	LMV331ILT	SOT-23-5	S	7	250	----	0.02/0.1	----/----	-40 to +85	.63	.54	.45
<a href="#">511-LM2901P</a>	LM2901PT	TSSOP-14	Q	7	250	1300	1.1/2.0	----/----	-40 to +125	.33	.30	.272
<a href="#">511-LM2903D</a>	LM2903D	SO-8	D	7	250	1300	0.4/1.0	----/----	-40 to +125	.42	.40	.38
<b>Thru Hole</b>												
<a href="#">511-LM239AN</a>	LM239AN	DIP-14	Q	2	100	1300	1.1/2.0	----/----	-40 to +105	.79	.594	.463
<a href="#">511-LM339AN</a>	LM339AN	DIP-14	Q	2	100	1300	1.3/2.5	----/----	0 to +70	.48	.40	.30
<a href="#">511-LM239N</a>	LM239N	DIP-14	Q	5	250	1300	1.3/2.5	----/----	-40 to +105	.47	.352	.261
<a href="#">511-LM339N</a>	LM339N	DIP-14	Q	5	250	1300	1.3/2.5	----/----	0 to +70	.55	.43	.297
<a href="#">511-LM293N</a>	LM293N	DIP-8	D	5	250	1300	0.4/1.0	----/----	-40 to +105	.37	.216	.193
<a href="#">511-LM393N</a>	LM393N	DIP-8	D	5	250	1300	0.4/1.0	----/----	0 to +70	.55	.43	.297
<a href="#">511-LM2901N</a>	LM2901N	DIP-14	Q	7	250	1300	1.1/2.0	----/----	-40 to +125	.34	.244	.185
<a href="#">511-LM2903N</a>	LM2903N	DIP-8	D	7	250	1300	0.4/1.0	----/----	-40 to +125	.33	.244	.176

## STMICROELECTRONICS MICROPOWER VOLTAGE COMPARATORS

Reduced power consumption brings a premium advantage by increasing battery lifetime in portable applications. Designed with high-performance BiCMOS technology, these devices have the advantages of both MOS and bipolar technologies.

**Specifications:**

- 6uA power consumption
- Wide supply voltage 2.7 to 10V
- 3us response time
- Rail-rail inputs/outputs

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.	STM Part No.	Package Type	Single Dual Quad	Input Offset Volt. Max (mV)	Input Bias Current Max (nA)	Response Time Typ (ns)	Supply Currents Typ/Max (mA)		Operating Temperature Range (°C)	Price Each		
							Positive	Negative		1	10	100
<b>Surface Mount</b>												
<a href="#">511-TS3704IP</a>	TS3704IPT	TSSOP-14	Q	5	0.6	0.12	0.036/0.08	----/----	-40 to +125	1.48	1.10	.927
<a href="#">511-TS393CD</a>	TS393CD	SO-8	D	5	0.6	0.15	0.02/0.04	----/----	0 to +70	.77	.62	.60
<a href="#">511-TS3702ID</a>	TS3702ID	SO-8	D	5	0.6	0.15	0.018/0.04	----/----	-40 to +125	.92	.827	.727
<a href="#">511-TS861AIL</a>	TS861AILT	SOT-23-5L	S	7	0.3	500	.006/0.012	----/----	-40 to +85	2.19	1.92	1.56
<a href="#">511-TS861IL</a>	TS861ILT	SOT-23-5L	S	7	0.3	500	.006/0.012	----/----	-40 to +85	2.17	1.86	1.51
<b>Thru Hole</b>												
<a href="#">511-TS3704CN</a>	TS3704CN	DIP-14	Q	5	0.6	0.12	0.036/0.08	----/----	0 to +70	.76	.73	.71
<a href="#">511-TS3702IN</a>	TS3702IN	DIP-8	D	5	0.6	0.15	0.018/0.04	----/----	-40 to +125	.98	.86	.686