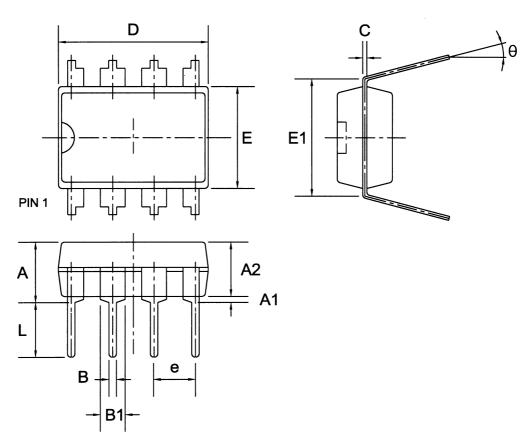
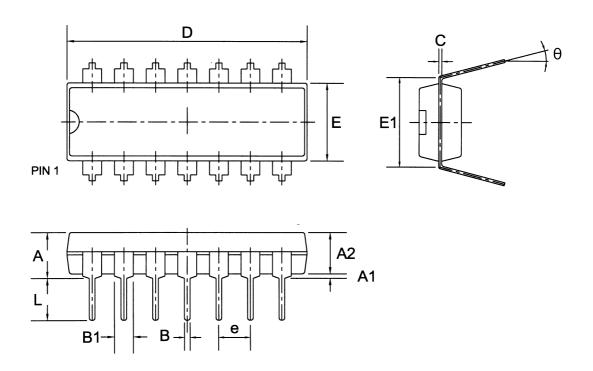
DIP-8 DIMENSION (FIG. NO. DIM-DIP8-0103-B)



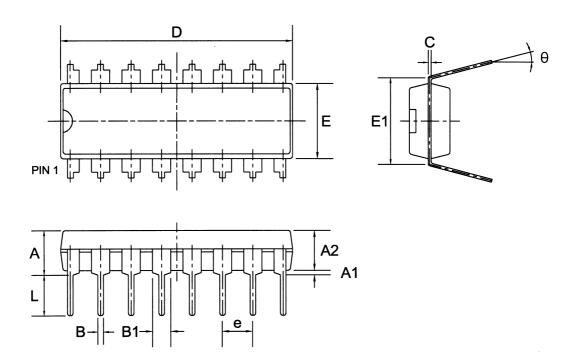
0	Dimen	sions In Mill	meters	Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α			4.31			0.170
A1	0.38			0.015		
A2	3.15	3.40	3.65	0.124	0.134	0.144
В	0.38	0.46	0.51	0.015	0.018	0.020
B1	1.27	1.52	1.77	0.050	0.060	0.070
С	0.20	0.25	0.30	0.008	0.010	0.012
D	8.95	9.20	9.45	0.352	0.362	0.372
E	6.15	6.40	6.65	0.242	0.252	0.262
E1		7.62			0.300	
е		2.54			0.100	
L	3.00	3.30	3.60	0.118	0.130	0.142
θ	0°		15°	0°		15 °

DIP-14 DIMENSION (FIG. NO. DIM-DIP14-0103-B)



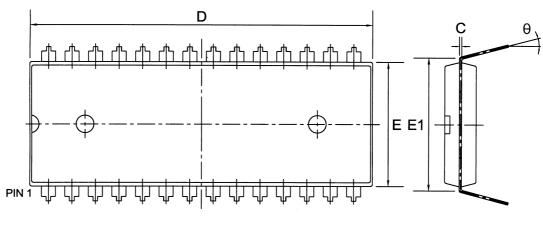
	Dimen	sions In Mill	meters	Dime	ensions In Inc	ches
Symbol	Min	Nom	Max	Min	Nom	Max
Α			4.31			0.170
A1	0.38			0.015		
A2	3.15	3.40	3.65	0.124	0.134	0.144
В		0.46			0.018	
B1		1.52			0.060	
С		0.25			0.010	
D	19.00	19.30	19.60	0.748	0.760	0.772
E	6.20	6.40	6.60	0.244	0.252	0.260
E1		7.62			0.300	
е		2.54			0.100	
L	3.00	3.30	3.60	0.118	0.130	0.142
θ	0°		15 °	0°		15 °

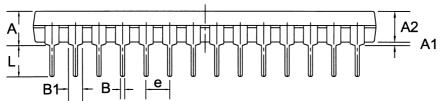
DIP-16 DIMENSION (FIG. NO. DIM-DIP16-0103-B)



0	Dimen	sions In Mill	meters	Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α			4.31			0.170
A1	0.38			0.015		
A2	3.15	3.40	3.65	0.124	0.134	0.144
В	0.38	0.46	0.51	0.015	0.018	0.020
B1	1.27	1.52	1.77	0.050	0.060	0.070
С	0.20	0.25	0.30	0.008	0.010	0.012
D	19.00	19.30	19.60	0.748	0.760	0.772
E	6.15	6.40	6.65	0.242	0.252	0.262
E1		7.62			0.300	
е		2.54			0.100	
L	3.00	3.30	3.60	0.118	0.130	0.142
θ	0.		15°	0.		15°

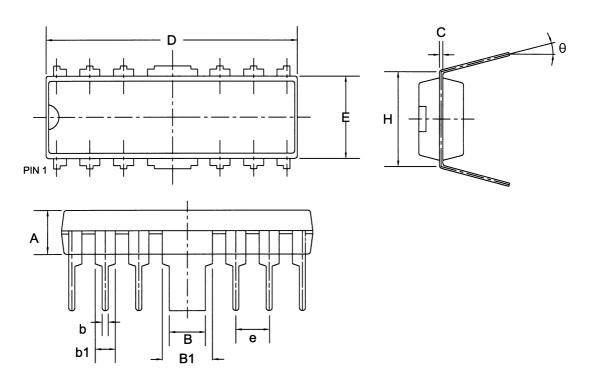
DIP-28 DIMENSION (FIG. NO. DIM-DIP28-0103-B)





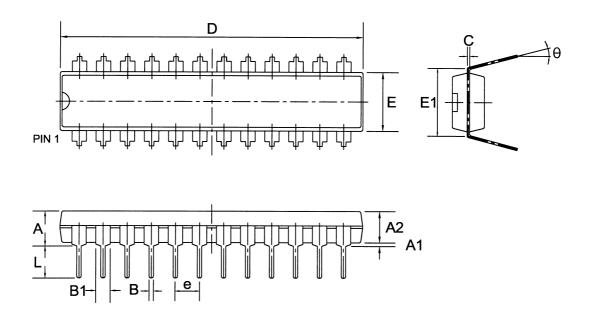
0	Dimen	sions In Mill	meters	Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α			5.34			0.210
A1	0.38			0.015		
A2	3.65	3.85	4.05	0.144	0.152	0.159
В		0.46			0.018	
B1		1.52			0.060	
С		0.25			0.010	
D	36.80	37.10	37.40	1.449	1.461	1.472
E	13.40	13.70	14.00	0.528	0.539	0.551
E1		15.24			0.600	
е		2.54			0.100	
L	3.00	3.30	3.60	0.118	0.130	0.142
θ	0 °		15 °	0°		15 °

DIP-12H DIMENSION (FIG. NO. DIM-DIP12H-0103-B)



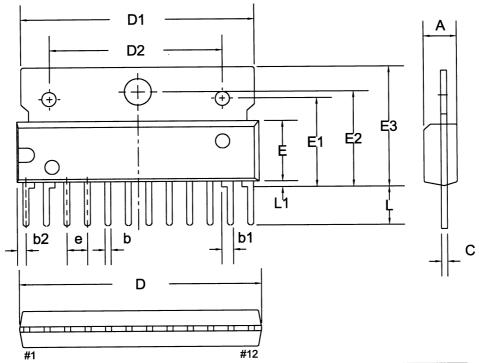
	Dimen	sions In Mill	meters	Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α	3.15	3.40	3.65	0.124	0.134	0.144
В		3.00			0.118	
B1		4.06			0.160	
b		0.46	<u>`</u>		0.018	
b1		1.52			0.060	
С		0.25			0.010	
D	18.90	19.00	19.10	0.744	0.748	0.752
E	6.20	6.30	6.40	0.244	0.248	0.252
Н	7.37	7.62	7.87	0.290	0.300	0.310
е		2.54			0.100	
θ	0°		15 °	0°		15 °

SDIP-24 DIMENSION (FIG. NO. DIM-SDIP24-0103-A)



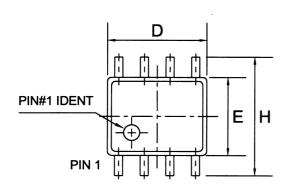
Cumbal	Dimen	sions In Mill	meters	Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α			4.31			0.170
A1	0.38			0.015		
A2	3.15	3.40	3.65	0.124	0.134	0.144
В		0.43			0.017	
B1		1.05			0.041	
С		0.25	_		0.010	
D	22.82	23.12	23.32	0.898	0.910	0.918
E	6.15	6.40	6.65	0.242	0.252	0.262
E1		7.62			0.300	
е		1.78			0.100	
L	3.00	3.30	3.60	0.118	0.130	0.142
θ	o°		15 °	0 °		15°

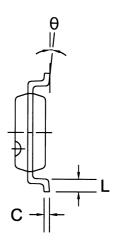
FSIP-12H DIMENSION (FIG. NO. DIM-FSIP12-0103-B)

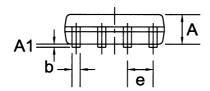


	Dimen	sions In Milli	meters	Dime	nsions In Inc	hes
Symbol	Min	Nom	Max	Min	Nom	Max
Α	3.80	4.00	4.20	0.150	0.157	0.165
b	0.40	0.50	0.60	0.016	0.020	0.024
b1	0.85	0.95	1.05	0.033	0.037	0.041
b2		0.83			0.033	
С	0.35	0.40	0.50	0.014	0.016	0.020
D	29.40	29.60	29.80	1.157	1.165	1.173
D1	27.80	28.00	28.20	1.094	1.102	1.110
D2	21.80	22.00	22.20	0.858	0.866	0.874
E	7.80	8.00	8.20	0.307	0.315	0.323
E1	11.30	11.50	11.70	0.445	0.453	0.461
E2	12.30	12.50	12.70	0.484	0.492	0.500
E3			15.20			0.598
е		2.54			0.100	
L	5.20	5.50	5.80	0.205	0.217	0.228
L1	0.30	0.50	0.70	0.012	0.020	0.028

SOP-8 DIMENSION (FIG. NO. DIM-SOP8-0103-B)

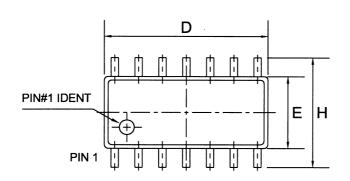


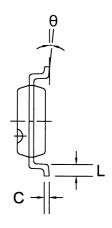


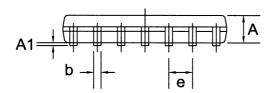


Comphal	Dimen	sions In Mill	meters	Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α	1.30	1.50	1.70	0.051	0.059	0.067
A1	0.06	0.16	0.26	0.002	0.006	0.010
b	0.30	0.40	0.55	0.012	0.016	0.022
С	0.15	0.25	0.35	0.006	0.010	0.014
D	4.72	4.92	5.12	0.186	0.194	0.202
E	3.75	3.95	4.15	0.148	0.156	0.163
е		1.27			0.050	
Н	5.70	6.00	6.30	0.224	0.236	0.248
L	0.45	0.65	0.85	0.018	0.026	0.033
θ	0°		8°	0°		8°

SOP-14 DIMENSION (FIG. NO. DIM-SOP14-0103-B)

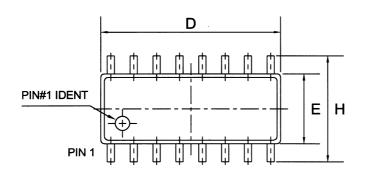


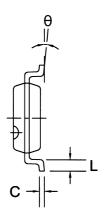


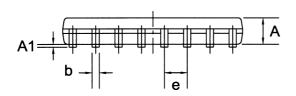


Cumbal	Dimer	Dimensions In Millmeters			Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max	
Α	1.30	1.50	1.70	0.051	0.059	0.067	
A1	0.08	0.16	0.24	0.003	0.006	0.009	
b		0.40			0.016		
С		0.25			0.010		
D	8.25	8.55	8.85	0.325	0.337	0.348	
E	3.75	3.95	4.15	0.148	0.156	0.163	
е		1.27			0.050	*********	
Н	5.70	6.00	6.30	0.224	0.236	0.248	
L	0.45	0.65	0.85	0.018	0.026	0.033	
θ	0		8	o°		8	

SOP-16 DIMENSION (FIG. NO. DIM-SOP16-0103-B)



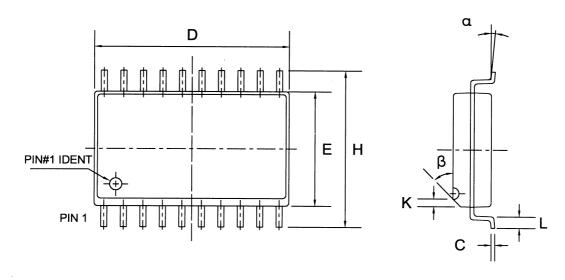


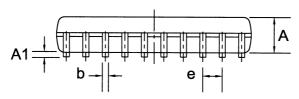


O b l	Dimen	sions In Mill	meters	Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α	1.30	1.50	1.70	0.051	0.059	0.067
A1	0.06	0.16	0.26	0.002	0.006	0.010
b	0.30	0.40	0.55	0.012	0.016	0.022
С	0.15	0.25	0.35	0.006	0.010	0.014
D	9.70	10.00	10.30	0.382	0.394	0.406
E	3.75	3.95	4.15	0.148	0.156	0.163
е		1.27			0.050	
Н	5.70	6.00	6.30	0.224	0.236	0.248
L	0.45	0.65	0.85	0.018	0.026	0.033
θ	0°		8.	0°		8°

UTC

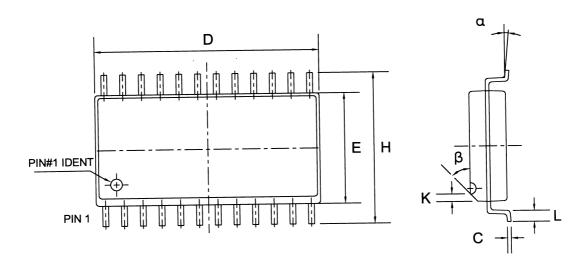
SOP-20 DIMENSION (FIG. NO. DIM-SOP20-0103-A)

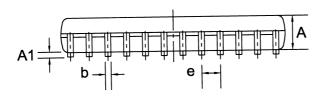




Symbol	Dimen	sions In Mill	meters	Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α	2.15	2.35	2.55	0.085	0.093	0.100
A1	0.05	0.15	0.25	0.002	0.006	0.010
b		0.40			0.016	
С		0.25			0.010	
D	12.40	12.70	13.00	0.488	0.500	0.512
E	7.40	7.65	7.90	0.291	0.301	0.311
е		1.27			0.050	
Н	10.15	10.45	10.75	0.400	0.411	0.423
K		0.50			0.020	
L	0.60	0.80	1.00	0.024	0.031	0.039
α	O°		8 *	0 °		8°
β		45 [°]			45°	

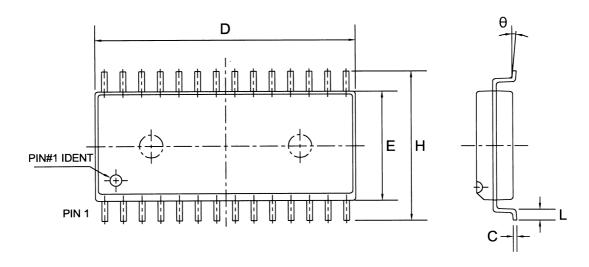
SOP-24 DIMENSION (FIG. NO. DIM-SOP24-0103-A)

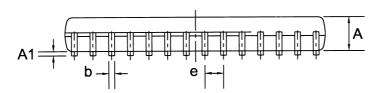




	Dimen	sions In Millr	meters	Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α	2.35	2.50	2.65	0.093	0.098	0.104
A1	0.10	0.20	0.30	0.004	0.008	0.012
b		0.40			0.016	
C		0.25			0.010	
D	15.10	15.40	15.70	0.594	0.606	0.618
Ē	7.35	7.50	7.65	0.289	0.295	0.301
e		1.27			0.050	
H	10.15	10.45	10.75	0.400	0.411	0.423
K		0.50			0.020	
L	0.60	0.80	1.00	0.024	0.031	0.039
$\frac{2}{\alpha}$	0°		8°	0		8 *
β		45°			45°	

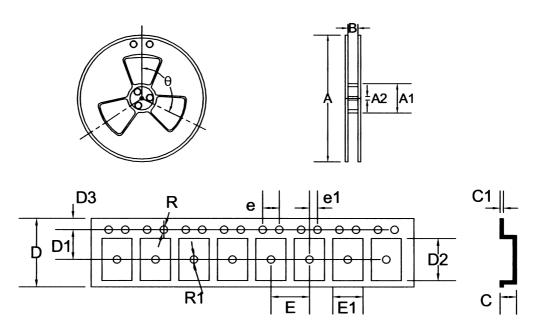
SOP-28 DIMENSION (FIG. NO. DIM-SOP28-0103-B)





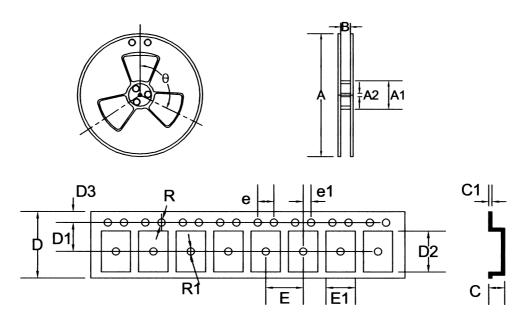
	Dimen	sions In Milli	meters	Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α	2.15	2.35	2.55	0.085	0.093	0.100
A1	0.05	0.15	0.25	0.002	0.006	0.010
b		0.40			0.016	
С		0.25			0.010	
D	17.40	17.70	18.00	0.685	0.697	0.709
E	7.40	7.65	7.90	0.291	0.301	0.311
е		1.27			0.050	
Н	10.15	10.45	10.75	0.400	0.411	0.423
L	0.60	0.80	1.00	0.024	0.031	0.039
θ	0°		8 *	o°		8 *

TAPING SOP-16 DIMENSION (FIG. NO. DIM-TAPING-SOP16-0104-B)



0	Dimen	sions In Mill	meters	Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α	327.00	330.00	333.00	12.874	12.992	13.110
A1	99.00	100.00	101.00	3.898	3.937	3.976
A2	13.30	13.50	13.70	0.524	0.531	0.539
В	16.20	16.50	16.80	0.638	0.650	0.661
С	2.00	2.10	2.20	0.079	0.083	0.087
C1	0.25	0.30	0.35	0.010	0.012	0.014
D	15.70	16.00	16.30	0.618	0.630	0.642
D1	7.40	7.50	7.60	0.291	0.295	0.299
D2	10.20	10.30	10.40	0.402	0.406	0.409
D3	1.65	1.75	1.85	0.065	0.069	0.073
E	7.90	8.00	8.10	0.311	0.315	0.319
E1	6.40	6.50	6.60	0.252	0.256	0.260
е	3.90	4.00	4.10	0.154	0.157	0.161
e1	1.90	2.00	2.10	0.075	0.079	0.083
R	1.45	1.50	1.60	0.057	0.059	0.063
R1	1.45	1.50	1.75	0.057	0.059	0.069
θ		120 ື			12 0 °	

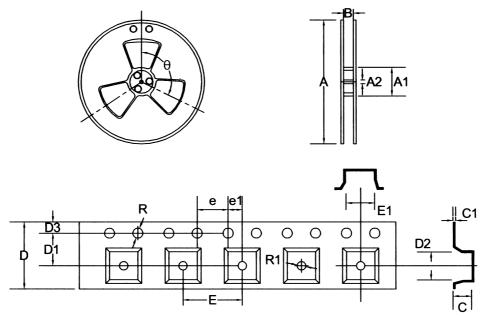
TAPING SOP-14 DIMENSION (FIG. NO. DIM-TAPING-SOP16-0104-B)



0	Dimen	Dimensions In Millmeters		Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α	327.00	330.00	333.00	12.874	12.992	13.110
A1	99.00	100.00	101.00	3.898	3.937	3.976
A2	13.30	13.50	13.70	0.524	0.531	0.539
В	16.20	16.50	16.80	0.638	0.650	0.661
С	2.00	2.10	2.20	0.079	0.083	0.087
C1	0.25	0.30	0.35	0.010	0.012	0.014
D	15.70	16.00	16.30	0.618	0.630	0.642
D1	7.40	7.50	7.60	0.291	0.295	0.299
D2	10.20	10.30	10.40	0.402	0.406	0.409
D3	1.65	1.75	1.85	0.065	0.069	0.073
E	7.90	8.00	8.10	0.311	0.315	0.319
E1	6.40	6.50	6.60	0.252	0.256	0.260
е	3.90	4.00	4.10	0.154	0.157	0.161
e1	1.90	2.00	2.10	0.075	0.079	0.083
R	1.45	1.50	1.60	0.057	0.059	0.063
R1	1.45	1.50	1.75	0.057	0.059	0.069
θ		120 ື			12 0 °	

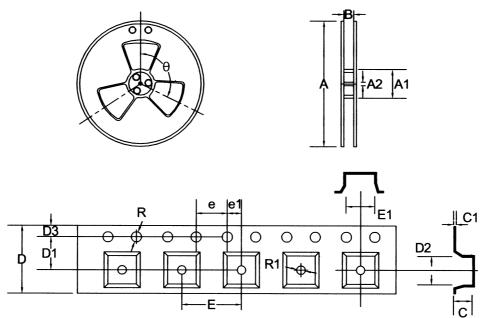
UTC

TAPING SOP-8 DIMENSION (FIG. NO. DIM-TAPING-SOP8-0104-B)



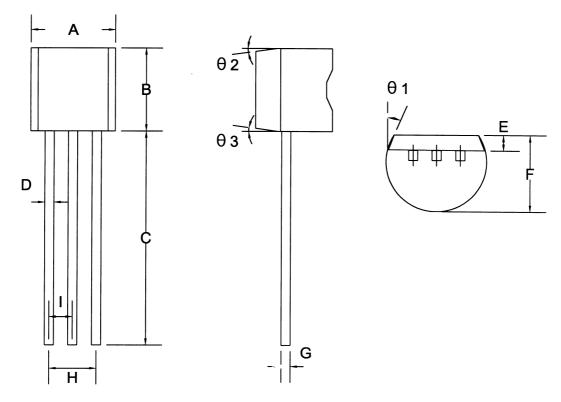
0	Dimen	sions In Mill	meters	Dime	nsions In Inc	ches
Symbol	Min	Nom	Max	Min	Nom	Max
Α	327.00	330.00	333.00	12.874	12.992	13.110
A1	99.00	100.00	101.00	3.898	3.937	3.976
A2	13.30	13.50	13.70	0.524	0.531	0.539
В	12.20	12.50	12.80	0.480	0.492	0.504
С	2.01	2.11	2.21	0.079	0.083	0.087
C1	0.19	0.29	0.39	0.007	0.011	0.015
D	11.70	12.00	12.30	0.461	0.472	0.484
D1	5.45	5.50	5.55	0.215	0.217	0.219
D2	5.11	5.21	5.31	0.201	0.205	0.209
D3	1.65	1.75	1.85	0.065	0.069	0.073
E	7.90	8.00	8.10	0.311	0.315	0.319
E1	6.30	6.40	6.50	0.248	0.252	0.256
е	3.90	4.00	4.10	0.154	0.157	0.161
10e	39.80	40.00	40.20	1.567	1.575	1.583
e1	1.95	2.00	2.05	0.077	0.079	0.081
R	1.45	1.50	1.60	0.057	0.059	0.063
R1	1.45	1.50	1.75	0.057	0.059	0.069
θ		12 °			12 o °	

TAPING SOP-28 DIMENSION (FIG. NO. DIM-TAPING-SOP28-0104-B)



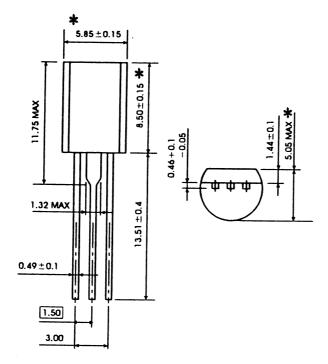
	Dimen	sions In Mill	meters	Dime	ensions In Inc	ches
Symbol	Min	Nom	Max	Min	Nom	Max
Α	327.00	330.00	333.00	12.874	12.992	13.110
A1	99.00	100.00	101.00	3.898	3.937	3.976
A2	13.30	13.50	13.70	0.524	0.531	0.539
В	24.20	24.50	24.80	0.953	0.965	0.976
С	2.87	2.97	3.07	0.113	0.117	0.121
C1	0.25	0.35	0.45	0.010	0.014	0.018
D	23.70	24.00	24.30	0.933	0.945	0.957
D1	11.40	11.50	11.60	0.449	0.453	0.457
D2	18.24	18.34	18.44	0.718	0.722	0.726
D3	1.65	1.75	1.85	0.065	0.069	0.073
E	11.90	12.00	12.10	0.469	0.472	0.476
E1	10.75	10.85	10.95	0.423	0.427	0.431
е	3.90	4.00	4.10	0.154	0.157	0.161
10e	39.80	40.00	40.20	1.567	1.575	1.583
e1	1.90	2.00	2.10	0.075	0.079	0.083
R	1.45	1.50	1.60	0.057	0.059	0.063
R1	1.45	1.50	1.75	0.057	0.059	0.069
θ		12 °			12 °	

TO-92 DIMENSION (FIG. NO. DIM-TO92-0104-B)



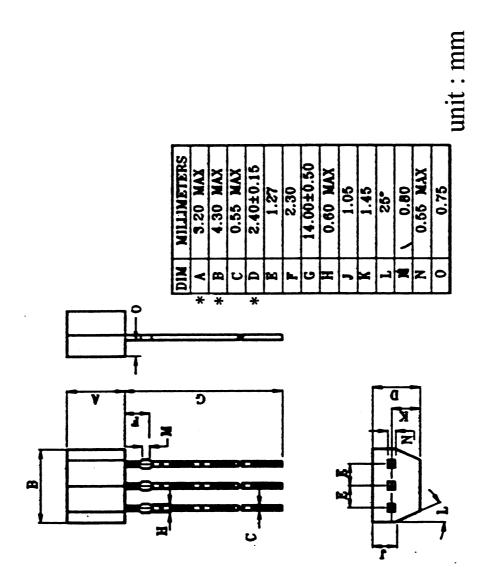
Complete	Dimensions In Millmeters			Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α	4.33	4.58	4.83	0.170	0.180	0.190
В	4.33	4.58	4.83	0.170	0.180	0.190
С	14.07	14.47	14.87	0.554	0.570	0.585
D	0.34	0.44	0.54	0.013	0.017	0.021
E	0.92	1.02	1.12	0.036	0.040	0.044
F	3.36	3.56	3.76	0.132	0.140	0.148
G	0.34	0.44	0.54	0.013	0.017	0.021
Н	2.42	2.54	2.66	0.095	0.100	0.105
1	1.15	1.27	1.39	0.045	0.050	0.055
θ1		5°	_		5°	
θ2		2°			2°	_
θ3		2°			2°	

TO-92L DIMENSION (FIG. NO. DIM-TO92L-0002-A)

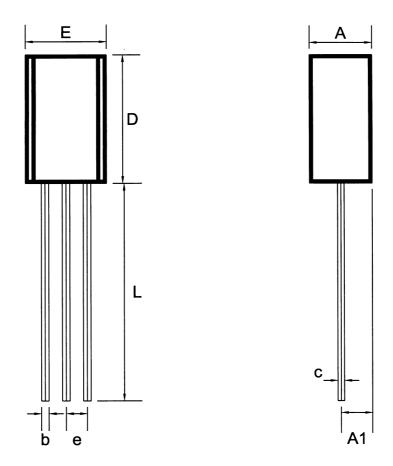


unit:mm

TO-92M DIMENSION (FIG. NO. DIM-TO92M-0002-A)

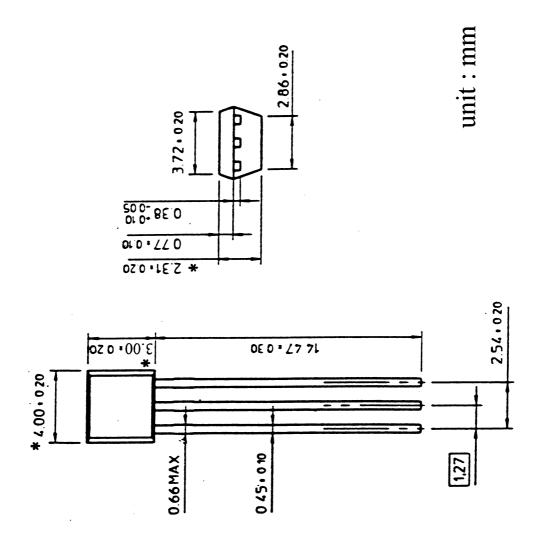


TO-92NL DIMENSION (FIG. NO. DIM-TO92NL-0103-B)

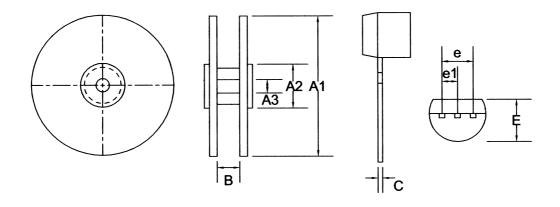


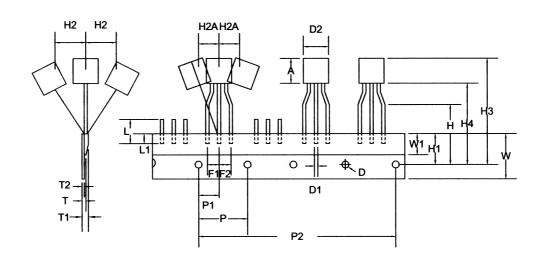
0	Dimer	sions In Mill	meters	Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α	3.60	3.80	4.00	0.142	0.150	0.157
A1	1.30	1.40	1.50	0.051	0.055	0.059
b		0.45	<u> </u>		0.018	
С		0.40			0.016	
D	7.85	8.00	8.15	0.309	0.315	0.321
E	4.75	4.90	5.05	0.187	0.193	0.199
е		1.27			0.050	_
L	13.10	13.50	13.90	0.516	0.531	0.547

TO-92SP DIMENSION (FIG. NO. DIM-TO92SP-0011-B)



TAPING TO-92 DIMENSION (FIG. NO. DIM-TAPING-TO92-0105-C 1/2)

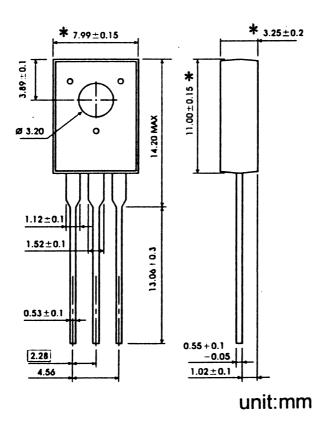




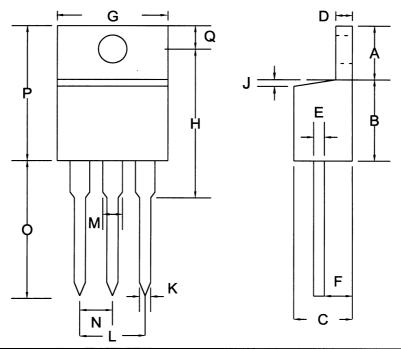
TAPING TO-92 DIMENSION (FIG. NO. DIM-TAPING-TO92-0105-C 2/2)

	Dimen	sions In Mill	meters	Dime	nsions In Inc	ches
Symbol	Min	Nom	Max	Min	Nom	Max
Α	4.33	4.58	4.83	0.170	0.180	0.190
A1	357.00	360.00	363.00	14.055	14.173	14.291
A2	89.00	90.00	91.00	3.504	3.543	3.583
A3	29.00	30.00	31.00	1.142	1.181	1.220
В	44.00	45.00	46.00	1.732	1.772	1.811
С		0.40			0.016	
D	3.80	4.00	4.20	0.150	0.157	0.165
D1	0.36	0.44	0.53	0.014	0.017	0.021
D2	4.33	4.58	4.83	0.170	0.180	0.190
E	3.30	3.50	3.70	0.130	0.138	0.146
е		2.54			0.100	
e1		1.27			0.050	
F1,F2	2.40	2.65	2.90	0.094	0.104	0.114
F1-F2	-0.30	0.00	+0.30	-0.012	0.000	+0.012
Н	15.50	16.00	16.50	0.610	0.630	0.650
H1	8.50	9.00	9.50	0.335	0.354	0.374
H2			1.00			0.039
H2A			1.00			0.039
H3			27.00			1.063
H4			21.00			0.827
L			11.00			0.433
L1	2.50			0.098		
P	12.50	12.70	12.90	0.492	0.500	0.508
P1	5.95	6.35	6.75	0.234	0.250	0.266
P2	50.30	50.80	51.30	1.980	2.000	2.020
T			0.55			0.022
T1			1.42			0.056
T2	0.36	0.52	0.68	0.014	0.020	0.027
W	17.50	18.25	19.00	0.689	0.719	0.748
W1	5.00	6.00	7.00	0.197	0.236	0.276

TO-126 DIMENSION (FIG. NO. DIM-TO126-0002-A)

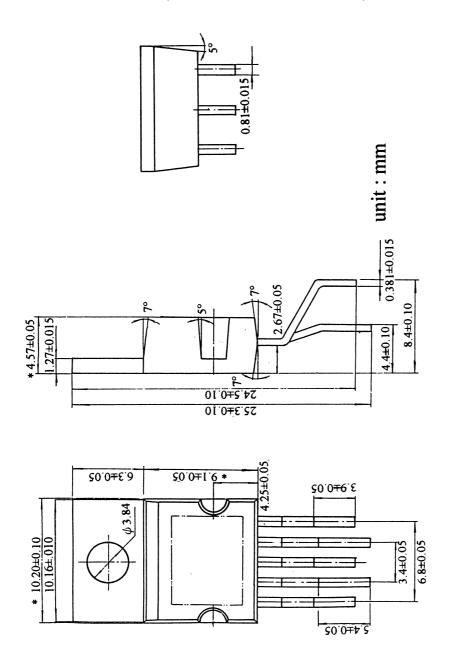


TO-220 DIMENSION (FIG. NO. DIM-TO220-0104-B)



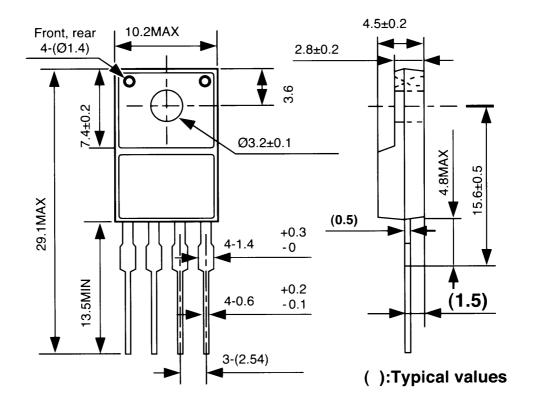
Current of	Dimen	sions In Mill	meters	Dimensions In Inches			
Symbol	Min	Nom	Max	Min	Nom	Max	
Α	5.58	6.54	7.49	0.220	0.257	0.295	
В	8.38	8.64	8.90	0.330	0.340	0.350	
С	4.07	4.45	4.82	0.160	0.175	0.190	
D	1.15	1.27	1.39	0.045	0.050	0.055	
E	0.35	0.45	0.60	0.014	0.018	0.024	
F	2.04	2.42	2.79	0.080	0.095	0.110	
G	9.66	9.97	10.28	0.380	0.393	0.405	
Н		16.25			0.640		
1	3.68	3.83	3.98	0.145	0.151	0.157	
J			1.27			0.050	
K	0.75	0.85	0.95	0.030	0.033	0.037	
L	4.83	5.08	5.33	0.190	0.200	0.210	
М	1.15	1.33	1.52	0.045	0.052	0.060	
N	2.42	2.54	2.66	0.095	0.100	0.105	
0	12.70	13.48	14.27	0.500	0.531	0.562	
Р	14.48	15.17	15.87	0.570	0.597	0.625	
Q	2.54	2.79	3.04	0.100	0.110	0.120	

TO-220B DIMENSION (FIG. NO. DIM-TO220B-0002-A)

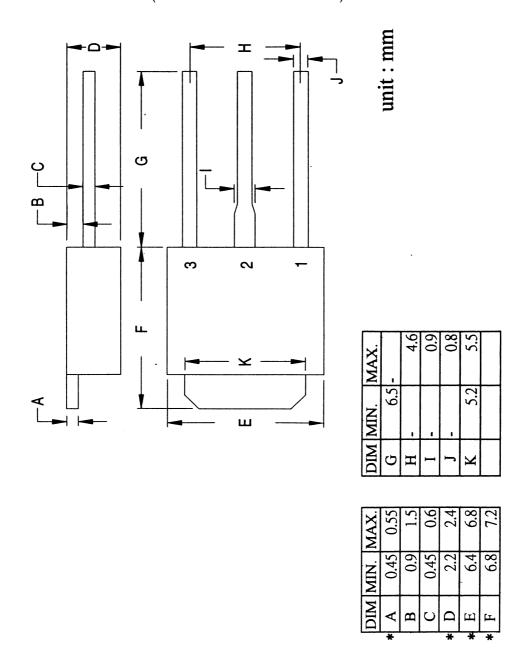


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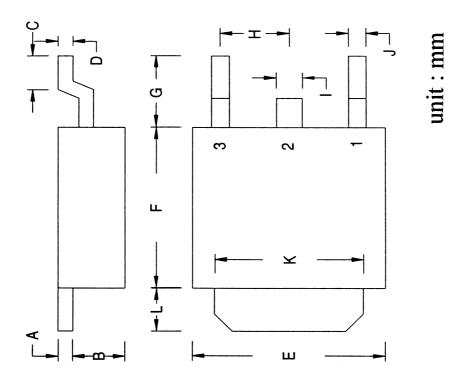
TO-220FP-4 DIMENSION (FIG. NO. DIM-TO220FP-0100-A)



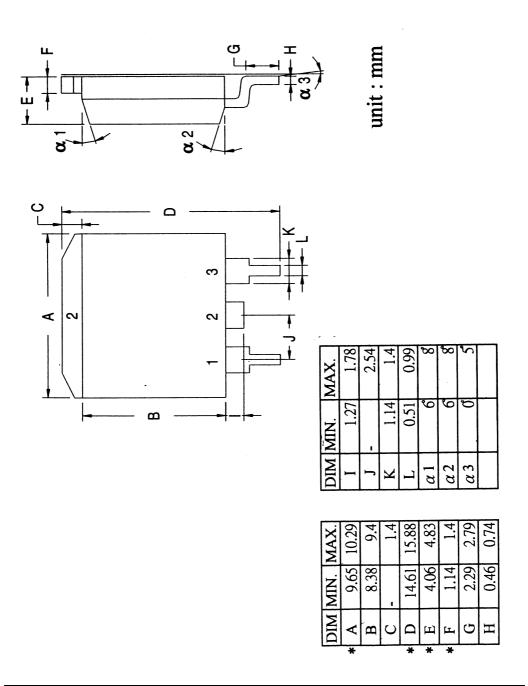
TO-251 DIMENSION (FIG. NO. DIM-TO251-0002-A)



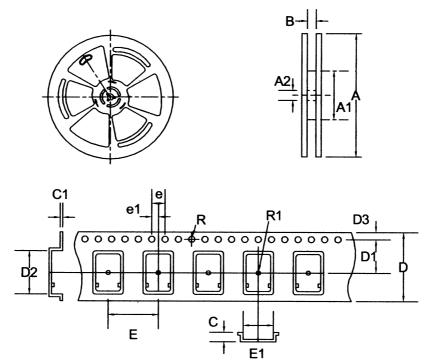
TO-252 DIMENSION (FIG. NO. DIM-TO252-0009-B)



TO-263 DIMENSION (FIG. NO. DIM-TO263-0002-A)

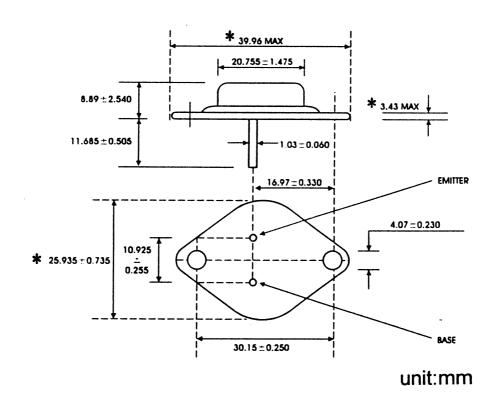


TAPING TO-263 DIMENSION (FIG. NO. DIM-TAPING-TO263-0105-A)

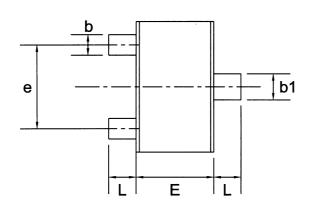


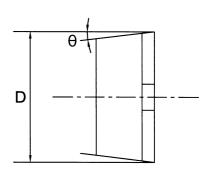
Comphal	Dimer	sions In Mill	meters	Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α	377.00	380.00	383.00	14.843	14.961	15.079
A1	96.00	97.00	98.00	3.780	3.819	3.858
A2	12.50	13.00	13.50	0.492	0.512	0.531
В	20.00	24.00	28.00	0.787	0.945	1.102
С	4.80	4.90	5.00	0.189	0.193	0.197
C1	0.30	0.35	0.40	0.012	0.014	0.016
D	23.70	24.00	24.30	0.933	0.945	0.957
D1	11.35	11.50	11.65	0.447	0.453	0.459
D2	15.80	15.90	16.00	0.622	0.626	0.630
D3	1.65	1.75	1.85	0.065	0.069	0.073
E	15.90	16.00	16.10	0.626	0.630	0.634
E1	10.70	10.80	10.90	0.421	0.425	0.429
е	3.90	4.00	4.10	0.154	0.157	0.161
e1	1.85	2.00	2.15	0.073	0.079	0.085
R	1.45	1.50	1.60	0.057	0.059	0.063
R1	1.90	2.00	2.10	0.075	0.079	0.083

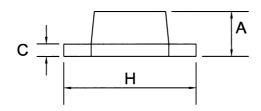
TO-3 DIMENSION (FIG. NO. DIM-TO3-0002-A)



SOT-113 DIMENSION (FIG. NO. DIM-SOT113-0103-B)

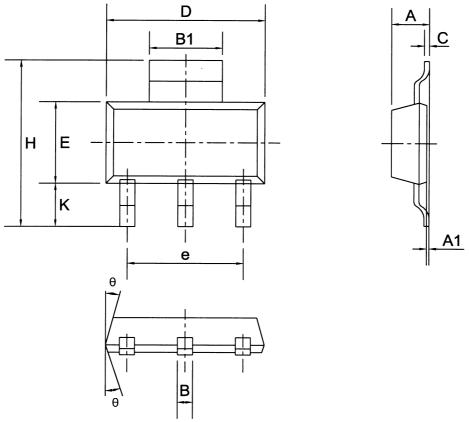






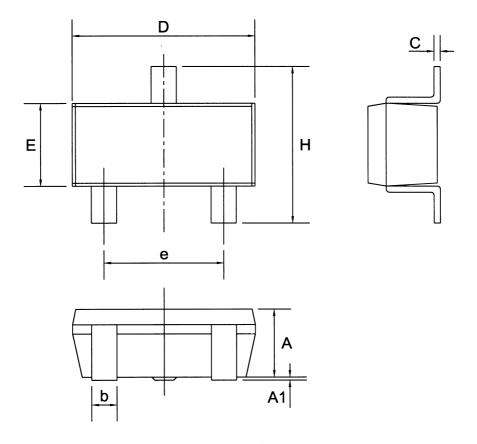
0	Dimen	sions In Mill	meters	Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α	0.56	0.61	0.66	0.022	0.024	0.026
b	0.19	0.22	0.25	0.007	0.009	0.010
b1	0.25	0.28	0.31	0.010	0.011	0.012
С	0.10	0.13	0.16	0.004	0.005	0.006
D	1.35	1.40	1.45	0.053	0.055	0.057
E	0.76	0.81	0.86	0.030	0.032	0.034
е		0.90			0.035	
Н	1.33	1.38	1.43	0.052	0.054	0.056
L	0.235	0.285	0.335	0.009	0.011	0.013
θ	0°		7°	0 0		7 *

SOT-223 DIMENSION (FIG. NO. DIM-SOT223-0103-B)



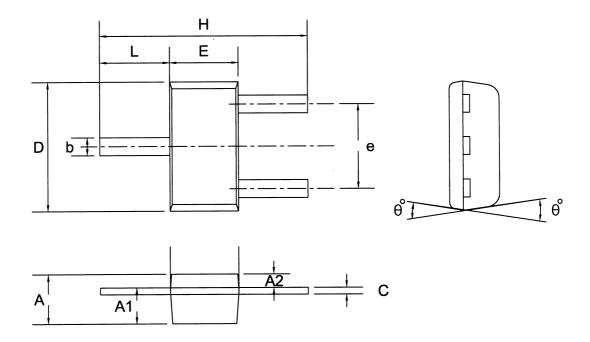
Symbol	Dimensions In Millmeters			Dimensions In Inches		
	Min	Nom	Max	Min	Nom	Max
Α	1.50	1.65	1.80	0.059	0.065	0.071
A1	0.02	0.05	0.08	0.001	0.002	0.003
В	0.60	0.70	0.80	0.024	0.028	0.031
B1	2.90	3.00	3.15	0.114	0.118	0.124
С	0.28	0.30	0.32	0.011	0.012	0.013
D	6.30	6.50	6.70	0.248	0.256	0.264
Ε	3.30	3.50	3.70	0.130	0.138	0.146
е		4.60			0.181	
Н	6.70	7.00	7.30	0.264	0.276	0.287
K	1.50	1.75	2.00	0.059	0.069	0.079
θ	0		13 °	0°		13 °

SOT-23 DIMENSION (FIG. NO. DIM-SOT23-0103-B)



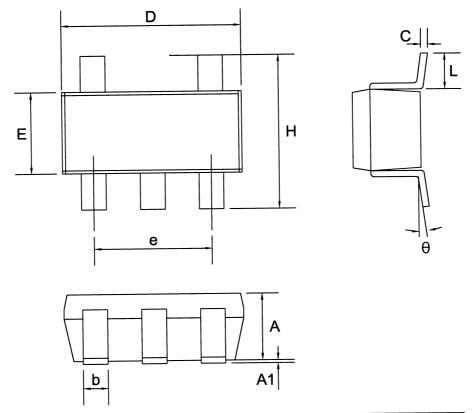
Symbol	Dimensions In Millmeters			Dimensions In Inches		
	Min	Nom	Max	Min	Nom	Max
Α	1.05	1.15	1.35	0.041	0.045	0.053
A1		0.05	0.10	_	0.002	0.004
b	0.35	0.40	0.55	0.014	0.016	0.022
С	0.08	0.10	0.20	0.003	0.004	0.008
D	2.70	2.90	3.10	0.106	0.114	0.122
E	1.20	1.35	1.50	0.047	0.053	0.059
е	1.70	1.90	2.10	0.067	0.075	0.083
Н	2.35	2.55	2.75	0.093	0.100	0.108

SOT-23 VERTICAL DIMENSION (FIG. NO. DIM-SOT23V-0103-B)



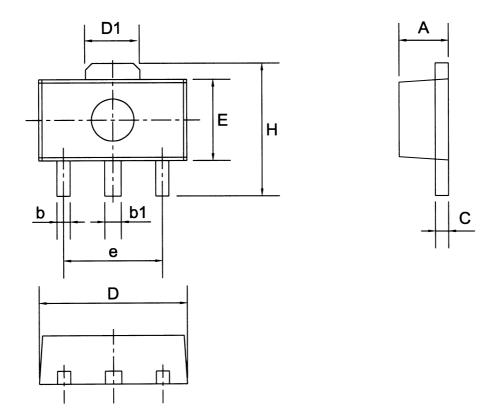
	Dimen	sions In Milli	meters	Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α	1.02	1.10	1.18	0.040	0.043	0.046
A1	0.75	0.80	0.85	0.030	0.031	0.033
A2	0.25	0.30	0.35	0.010	0.012	0.014
b	0.30	0.40	0.50	0.012	0.016	0.020
С	0.05	0.15	0.25	0.002	0.006	0.010
D	2.80	2.90	3.00	0.110	0.114	0.118
E	1.45	1.50	1.55	0.057	0.059	0.061
е	1.70	1.90	2.10	0.067	0.075	0.083
Н		4.65			0.183	
L	1.52			0.060		
θ	0°		10°	0°		10°

SOT-25 DIMENSION (FIG. NO. DIM-SOT25-0103-B)



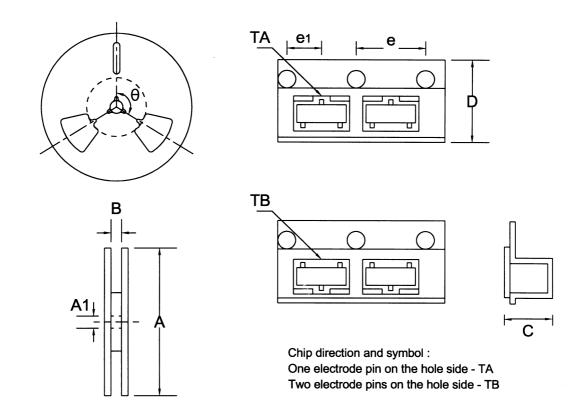
	Dimen	Dimensions In Millmeters			Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max	
Α	1.00	1.10	1.20	0.039	0.043	0.047	
A1	0.00		0.10	0.000		0.004	
b	0.35	0.40	0.50	0.014	0.016	0.020	
С	0.10	0.15	0.25	0.004	0.006	0.010	
D	2.70	2.90	3.10	0.106	0.114	0.122	
Е	1.40	1.60	1.80	0.055	0.063	0.071	
е		1.90			0.075		
Н	2.60	2.80	3.00	0.102	0.110	0.118	
L	0.35	0.45	0.55	0.014	0.018	0.022	
θ	0°	5°	10°	0°	5°	10°	

SOT-89 DIMENSION (FIG. NO. DIM-SOT89-0103-B)



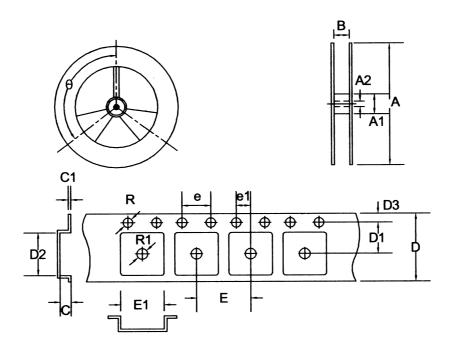
			ions In Millmeters		Dimensions In Inches	
Symbol	Min	Nom	Max	Min	Nom	Max
Α	1.30	1.50	1.70	0.051	0.059	0.067
b	0.25	0.40	0.55	0.010	0.016	0.022
b1	0.40	0.50	0.60	0.016	0.020	0.024
С	0.30	0.40	0.50	0.012	0.016	0.020
D	4.30	4.50	4.70	0.169	0.177	0.185
D1	1.45	1.65	1.85	0.057	0.065	0.073
E	2.30	2.50	2.70	0.091	0.098	0.106
е	2.90	3.00	3.10	0.114	0.118	0.122
Н	3.90	4.10	4.30	0.154	0.161	0.169

TAPING SOT-23 DIMENSION (FIG. NO. DIM-TAPING- SOT23-0104-B)



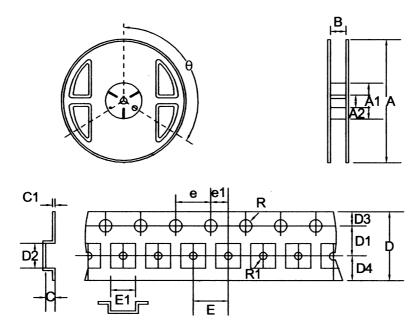
Courada al	Dimensions In Millmeters			Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α	176.00	178.00	180.00	6.929	7.008	7.087
A1	12.80	13.00	13.20	0.504	0.512	0.520
В	9.80	10.00	10.20	0.386	0.394	0.402
С	1.45	1.55	1.65	0.057	0.061	0.065
D	7.80	8.00	8.20	0.307	0.315	0.323
е	3.90	4.00	4.10	0.154	0.157	0.161
e1	1.90	2.00	2.10	0.075	0.079	0.083
θ		120°			120°	

TAPING SOT-223 DIMENSION (FIG. NO. DIM-TAPING-SOT223-0105-A)



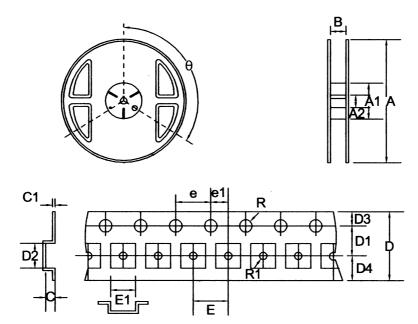
	Dimen	sions In Mill	meters	Dime	nsions In Inc	ches
Symbol	Min	Nom	Max	Min	Nom	Max
Α	416.00	420.00	424.00	16.378	16.535	16.693
A1	78.00	80.00	82.00	3.071	3.150	3.228
A2	12.50	13.00	13.50	0.492	0.512	0.531
В	12.50	13.50	14.50	0.492	0.531	0.571
С	2.00	2.10	2.20	0.079	0.083	0.087
C1	0.25	0.30	0.35	0.010	0.012	0.014
D	11.70	12.00	12.30	0.461	0.472	0.484
D1	5.40	5.50	5.60	0.213	0.217	0.220
D2	7.40	7.50	7.60	0.291	0.295	0.299
D3	1.65	1.75	1.85	0.065	0.069	0.073
Ē	7.90	8.00	8.10	0.311	0.315	0.319
E1	6.80	6.90	7.00	0.268	0.272	0.276
е	3.90	4.00	4.10	0.154	0.157	0.161
e1	1.90	2.00	2.10	0.075	0.079	0.083
R	1.45	1.50	1.60	0.057	0.059	0.063
R1	1.45	1.50	1.60	0.057	0.059	0.063
θ		120			120	

TAPING SOT-25 DIMENSION (FIG. NO. DIM-TAPING-SOT25/26-0105-A)



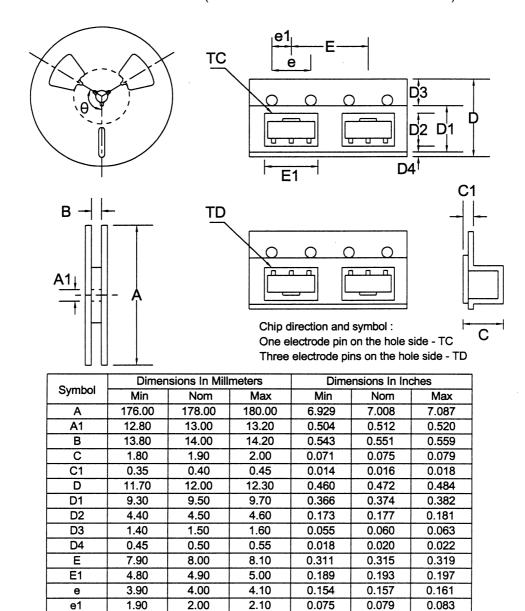
0	Dimer	sions In Mill	meters	Dime	nsions In Inc	ches
Symbol	Min	Nom	Max	Min	Nom	Max
Α	178.00	180.00	182.00	7.008	7.087	7.165
A1	59.00	60.00	61.00	2.323	2.362	2.402
A2	12.80	13.00	13.20	0.504	0.512	0.520
В	8.70	9.00	9.30	0.343	0.354	0.366
С	1.40	1.50	1.60	0.055	0.059	0.063
C1	0.20	0.25	0.30	0.008	0.010	0.012
D	7.80	8.00	8.20	0.307	0.315	0.323
D1	3.45	3.50	3.55	0.136	0.138	0.140
D2	3.10	3.20	3.30	0.122	0.126	0.130
D3	1.65	1.75	1.85	0.065	0.069	0.073
D4	2.65	2.75	2.85	0.104	0.108	0.112
E	3.90	4.00	4.10	0.154	0.157	0.161
E1	3.20	3.30	3.40	0.126	0.130	0.134
е	3.90	4.00	4.10	0.154	0.157	0.161
e1	1.90	2.00	2.10	0.075	0.079	0.083
R	1.45	1.50	1.60	0.057	0.059	0.063
R1	1.00	1.10	1.20	0.039	0.043	0.047
θ		120°			120°	

TAPING SOT-26 DIMENSION (FIG. NO. DIM-TAPING-SOT25/26-0105-A)



0	Dimer	sions In Mill	meters	Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α	178.00	180.00	182.00	7.008	7.087	7.165
A1	59.00	60.00	61.00	2.323	2.362	2.402
A2	12.80	13.00	13.20	0.504	0.512	0.520
В	8.70	9.00	9.30	0.343	0.354	0.366
С	1.40	1.50	1.60	0.055	0.059	0.063
C1	0.20	0.25	0.30	0.008	0.010	0.012
D	7.80	8.00	8.20	0.307	0.315	0.323
D1	3.45	3.50	3.55	0.136	0.138	0.140
D2	3.10	3.20	3.30	0.122	0.126	0.130
D3	1.65	1.75	1.85	0.065	0.069	0.073
D4	2.65	2.75	2.85	0.104	0.108	0.112
E	3.90	4.00	4.10	0.154	0.157	0.161
E1	3.20	3.30	3.40	0.126	0.130	0.134
е	3.90	4.00	4.10	0.154	0.157	0.161
e1	1.90	2.00	2.10	0.075	0.079	0.083
R	1.45	1.50	1.60	0.057	0.059	0.063
R1	1.00	1.10	1.20	0.039	0.043	0.047
θ		12 °			120°	

TAPING SOT-89 DIMENSION (FIG. NO. DIM-TAPING-SOT89-0104-B)



UTC UNISONIC

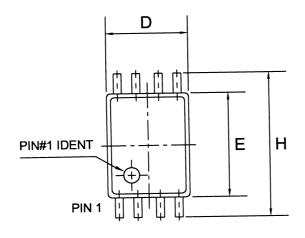
120°

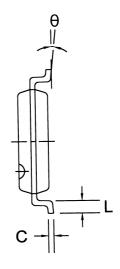
θ

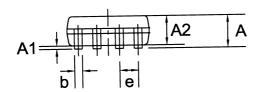
UNISONIC TECHNOLOGIES CO., LTD.

120°

TSSOP-8 DIMENSION (FIG. NO. DIM-TSSOP8-0103-B)

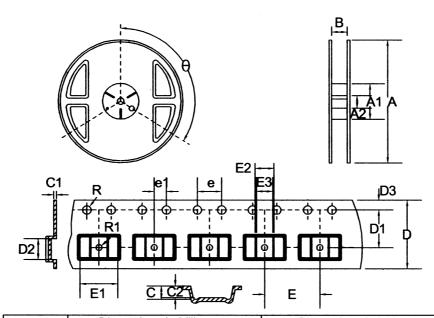






	Dimen	sions In Millmeters		Dimensions In Inches		
Symbol	Min	Nom	Max	Min	Nom	Max
Α	1.05	1.10	1.20	0.041	0.043	0.047
A1	0.05	0.10	0.15	0.002	0.004	0.006
A2	0.90	1.00	1.10	0.035	0.039	0.043
b		0.27			0.011	
C		0.127			0.005	
D	2.90	3.05	3.10	0.114	0.120	0.122
E	4.30	4.40	4.50	0.169	0.173	0.177
е		0.65			0.026	
Н	6.20	6.40	6.60	0.244	0.252	0.260
L	0.50	0.60	0.70	0.020	0.024	0.028
θ	0°		8°	0		8 *

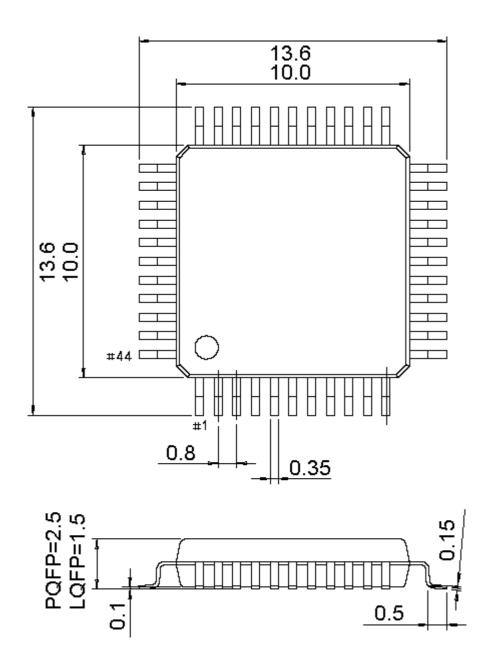
TAPING TSSOP-8 DIMENSION (FIG. NO. DIM-TAPING-TSSOP8-0105-A)



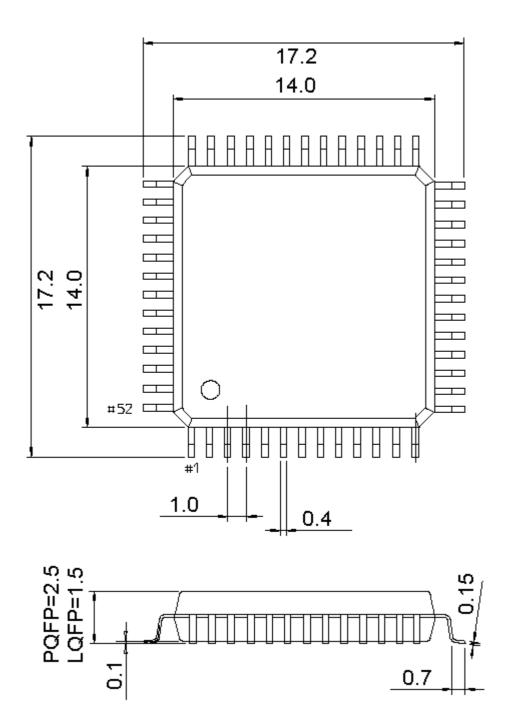
C:b-al	Dimen	sions In Mill	meters	Dimensions In Inches			
Symbol	Min	Nom	Max	Min	Nom	Max	
Α	178.00	180.00	182.00	7.008	7.087	7.165	
. A1	59.00	60.00	61.00	2.323	2.362	2.402	
A2	12.80	13.00	13.20	0.504	0.512	0.520	
В	11.00	12.00	13.00	0.433	0.472	0.512	
С	1.50	1.60	1.70	0.060	0.063	0.067	
C1	0.25	0.30	0.35	0.010	0.012	0.014	
C2	1.20	1.30	1.40	0.047	0.051	0.055	
D	11.70	12.00	12.30	0.461	0.472	0.484	
D1	5.40	5.50	5.60	0.213	0.217	0.220	
D2	3.30	3.40	3.50	0.130	0.134	0.138	
D3	1.65	1.75	1.85	0.065	0.069	0.073	
E	7.90	8.00	8.10	0.311	0.315	0.319	
E1	6.70	6.80	6.90	0.264	0.268	0.272	
E2	4.30	4.40	4.50	0.170	0.173	0.177	
E3	3.70	3.80	3.90	0.146	0.150	0.154	
е	3.90	4.00	4.10	0.154	0.157	0.161	
e1	1.90	2.00	2.10	0.075	0.079	0.083	
R	1.45	1.50	1.60	0.057	0.059	0.063	
R1	1.45	1.50	1.60	0.057	0.059	0.063	
θ		120			120°		

QFP 类(PQFP)

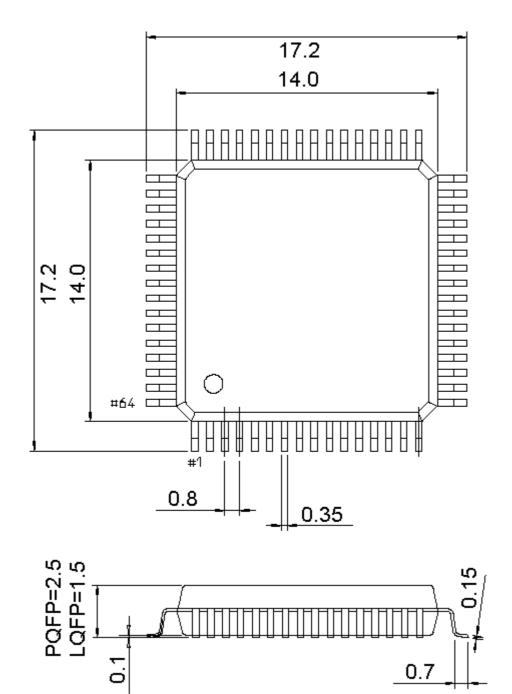
QFP44



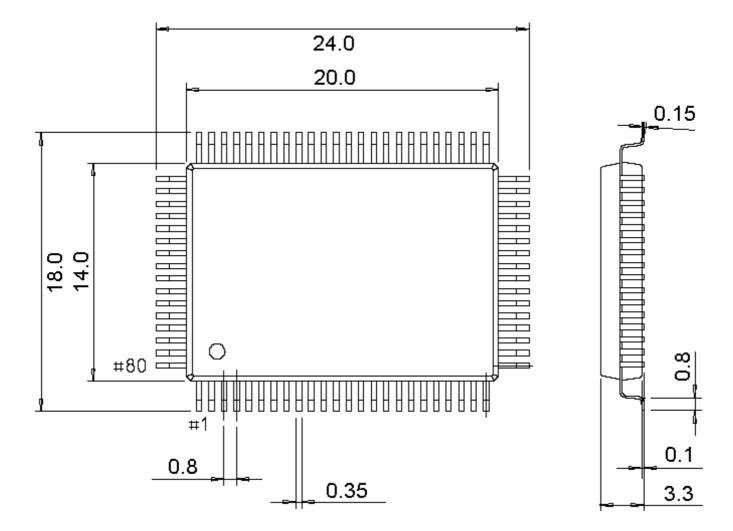
QFP52



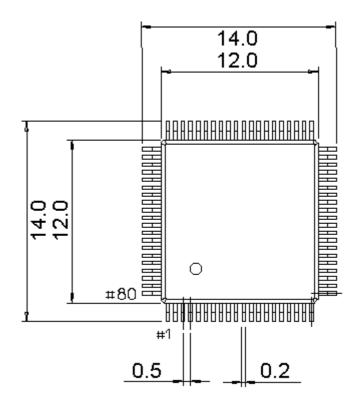
QFP64

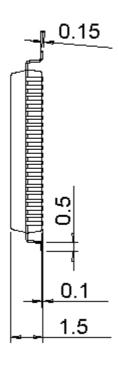


PQFP80

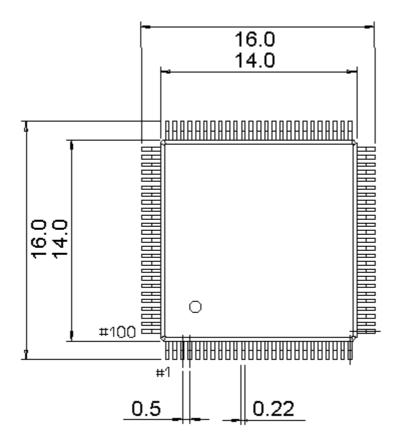


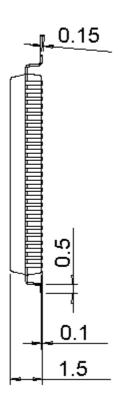
LQFP80





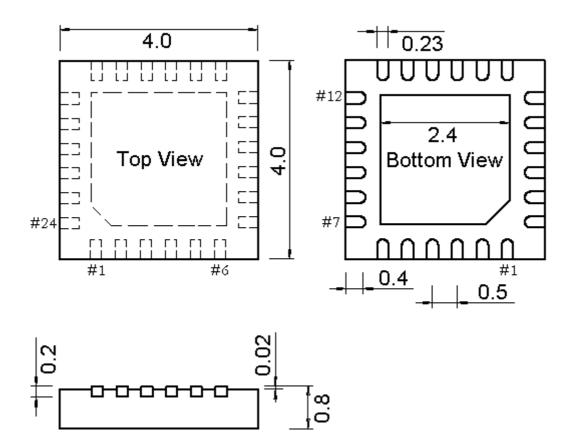
LQFP100



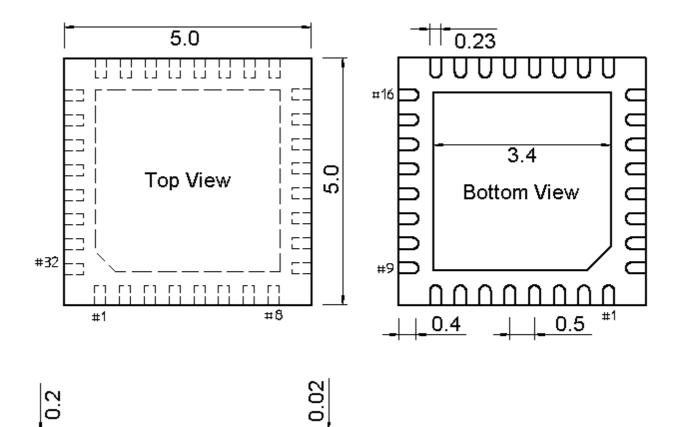


QFN 类

QFN24

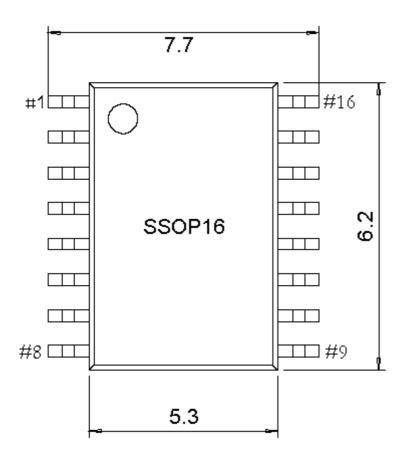


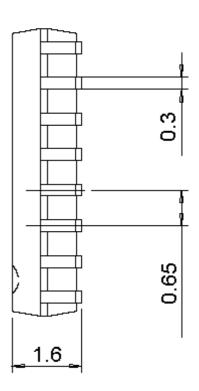
QFN32

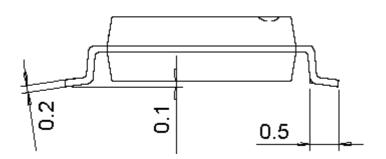


SSOP 类

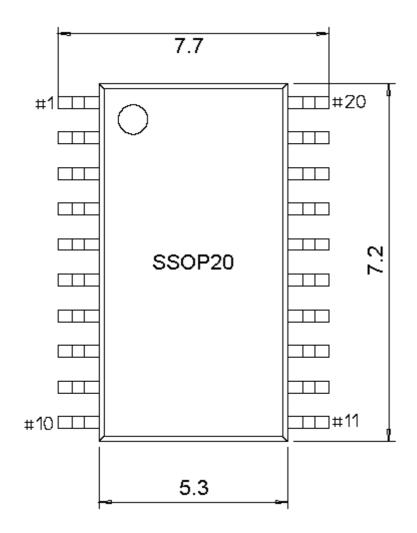
SSOP16

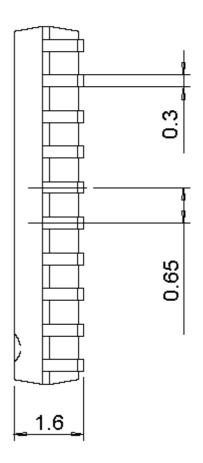


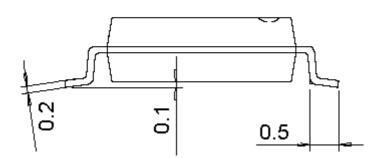




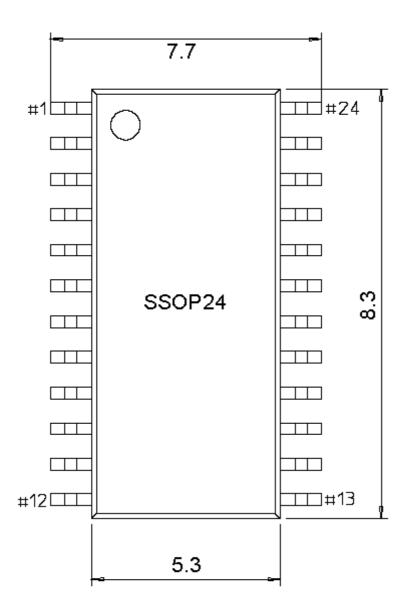
SSOP20

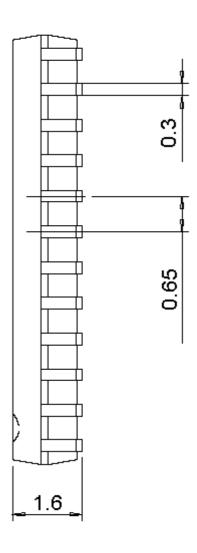


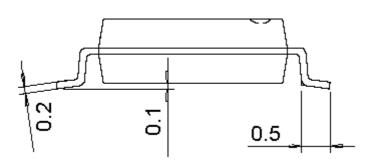




SSOP24







电阻电容类

现在常用的的电阻、电容、电感、二极管都有贴片封装。贴片封装用四位数字标识,表明了器件的长度和宽度。贴片电阻有百分五和百分一两种精度,购买时不特别说明的话就是指百分五。一般说的贴片电容是片式多层陶瓷电容(MLCC),也称独石电容。附表是贴片电阻的参数。

英制 (mil)	公制 (mm)	长(L) (mm)	宽(W) (mm)	高(t) (mm)	a (mm)	b (mm)	常规 功率 W	提升功率W	最大 工作 电压 V
0201	0603	0.60±0.05	0.30±0.05	0.23±0.05	0.10±0.05	0.15±0.05	1/20		25
0402	1005	1.00±0.10	0.50±0.10	0.30±0.10	0.20±0.10	0.25±0.10	1/16		50
0603	1608	1.60±0.15	0.80±0.15	0.40±0.10	0.30±0.20	0.30±0.20	1/16	1/10	50
0805	2012	2.00±0.20	1.25±0.15	0.50±0.10	0.40±0.20	0.40±0.20	1/10	1/8	150
1206	3216	3.20±0.20	1.60±0.15	0.55±0.10	0.50±0.20	0.50±0.20	1/8	1/4	200
1210	3225	3.20±0.20	2.50±0.20	0.55±0.10	0.50±0.20	0.50±0.20	1/4	1/3	200
1812	4832	4.50±0.20	3.20±0.20	0.55±0.10	0.50±0.20	0.50±0.20	1/2		200
2010	5025	5.00±0.20	2.50±0.20	0.55±0.10	0.60±0.20	0.60±0.20	1/2	3/4	200
2512	6432	6.40±0.20	3.20±0.20	0.55±0.10	0.60±0.20	0.60±0.20	1		200

SMD 元件焊盘尺寸设计参考

序号	元件类型	PAD 尺寸	对应钢板开孔尺寸	说明
1	0201 chip	13.5mil	13.5mil	X: →13.5mil Y: →9.5mil 开孔尺寸不变
2	0402 chip	I WCC [I WO]	16mil 20mil	X: 24→20mil Y: 22→20mil 内距不变
3	0603 chip	35mil	I.m.i.	X、Y、内距都不变 半圆槽直径→17mil
4	0805 chip	40mii 40mii	φl?mil ψl?mil	X: 56→50mil Y: 40→45mil 半圆槽直径→17mil
5	1206 chip	65mil	60mil	X: 65→60mil Y: 50→55mil 半圆槽直径→20mil 內距:79mil

6	大于 1206 电阻	A	A-Smil	X:減8mil Y:不变 內距:C+8mil 挖孔=1/3A 深度:20mil
7	大于 1206 电容 代号 C 系列	₩ C	(第度=1/36+2mi) (2+16mi) B#6mi	X: A-16mil Y: B+8mil 內距: C+16mil 挖孔= 1/3A 深度 = 1/3B+2mil
8	Alumin 铝质电容	c + w	C+40mil 1/3A	削成六角形
9	(大型) 高压电容 内距=110mil	110mil	30 \$ 118	X: 不变 Y: 60→88mil 內距:110→118mil 半圆槽直径 30mil 深度 31 mil
10	(大型) 高压电容 内距=130mil	50	78	X: 不变 Y: 50→78mil 内距: 130 不变
11	(大型) 高压电容 内距=130mil	60	120 120 130	X: 130→120 mil Y: 60→92 mil 內距: 130 不变

12	(圆型) 高压电容 内距=110mil	A B	4.16mil 1.mc+1/30-1/30-1/30-1/30-1/30-1/30-1/30-1/30-	X: A-16mil Y: B+8mil 內距: C+16mil 挖孔 = 1/3A 深度 = 1/3B+2mil
13	(小型) 黑色圆形电 感器件 代号L	118mil 76mil	214mil 6.2mil	X: 118→90mil Y: 78→62mil 內距: 174→214mil
14	(大型) 黑色圆形电 感器件 代号L	166mil	198mil	X: 166→198mil Y: 236→176mil 內距不变
15	Diode (小型)	54mil	60mil 36mil	X: 54→40mil Y: 不变 內距:54→60mil
16	Diode (中型)	Zomil → Amil	52	X: 不变 Y: 不变 內距: 74→80mil
17	Diode (大型)	79mil	79mil 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	X: 不变 Y: 79→71mil(內砍 8mil) 內边: 导角 40x26mil 內边: 內砍 8mil 內距: 86→102mil

18	VARITER 零件 代号 RV1	108mil	100mil 100mil 11mg6 [img6	X: 108→100mil Y: 85→93mil 內距: 89→97mil 挖孔: 33mil 深度: 33mil
19	FUSE 保险丝 1026 (不含)以下	\$2mil	19 52 21 75	X: 86→62mil Y: 不变 內距:52→75mil 半圆槽直径 21 mil 深度 19 mil
20	FUSE 保险丝 1026 (不含)以上	124mil	92 74 31 123	X: 124→92mil Y: 77→74mil 內距: 117→123mil 半圆槽直径 31 mil 深度 27 mil
21	Connector 0.5Pitch	47mil	% Smile in the control of the contro	Y: 10 →9mil X 外加 6 mil 由 47→53mil 耳朵后加 12mil
22	Connector 0.65Pitch	12	91 10.8	Y:: 12 mil→10.8 mil X: 外加 12 mil 耳朵后加 12mil

		T		,
23	Connector 1.0 Pitch	110mil	20mil	宽: 24→20mil X外加:8mil 110→118mil 耳朵后加 12mil
24	Connector 1.27 Pitch	74mil ***	Tiwell in the second se	宽: 30→26mil X外加:12mil 74mil→86mil 耳朵后加 12mil
25	排阻 RN	Ismil	25mil	X: 18→15mil Y: 42→50mil 內距:不变
26	六脚 IC 0.65 pitch	12mil [Image	13.5mil 13.5mil	外四脚: X: 12→13.5mil Y: 36→45mil 內二脚: X: 12→11.5mil Y: 36→45mil 內距: 不变
27	SOIC 0.5 pitch	7.5mil 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	110mil 0	X:: 不變 Y:: 12 → 8.6mil 內距: 不变

28	SOIC 0.65pitch	238mil 90mil 4	262mil 84mil 7	X:: 90 → 84mil Y:: 16 → 10.7mil 內距:: 238→262mil
29	SOIC 1.27 pitch	24mil	26mil 1742	X: 24→26mil Y: 66 →72mil 內距: 不变
30	变压器	### ### ### ### ### ### ### ### ### ##	124 48 距離20	右 pinX: 100 → 124mil 左 2pinX 外加:: 24 mil Y: 48 → 64mil 內距: 不变
31	QFP 0.5pitch			X:: 11mil → 8.6mil Y: 不变
32	QFP 0.65pitch		10.7mil	X: 15mil→10.7mil Y: 不变

	T			,
33	PLCC	30mil 3		X: 不变 Y: 不变
34	三脚电晶体	40mil G	40mil C+6mil	內砍: 3mil X: 不变 Y: 45→42mil 內距: C+6mil
35	四脚 电晶体	72mil	C+16mil	椭圆形外移 16mil 椭圆短径缩: 112→ 98mil 椭圆短径缩: 72→ 58mil 椭圆长径下砍: 1/3:32mil
36	五脚电晶体	42mil 12mil	48mil 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	前 3 脚 X: 42→48mil 往外: 6mil 前 3 脚 Y: 22→20mil 后 2 脚 X: 42→42mil 后 2 脚 Y: 22→30mil
37	Crystal 振荡器	79mil	209mil 45mil	X:: 55 → 43mil Y: 79 → 45mil 內距:: 149→209mil
38	BGA 0.80mm Pitch	Pitch 31 18 mil 直徑	Pitch 31 開 16 mil 直徑	原寸: 直径 18 mil 开孔: 直径 16 mil

39	BGA 1.00mm Pitch	→ ← Pitch 40 20 mil 直徑	Pitch 40 開 21 mil 直徑	原寸: 直径 20 mil 开孔: 直径 21 mil
40	BGA 1.27mm Pitch	→ ← Pitch 50 30 mil直徑	→ Pitch 50 開 24 mil 直徑	原寸: 直径 30 mil 开孔: 直径 24 mil
41	J1 Connecter	79 98 1 02 15	79 98 11 188 耳朵外移 20 mil	耳朵原寸外移 20 mil 尺寸如图示
42	CN1 Connecter (K02I024 J07I037 SERIES)	71 10	1.6mm 1.0mm	其余单位为 mil

540 编 2006年3月25日

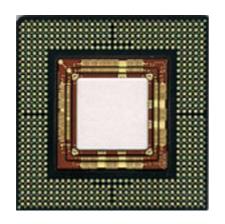
精度为5%的碳膜电阻,以欧姆为单位的标称值:

1.0	5.6	33	160	820	3.9K	20K	100K	510K	2.7M
1.1	6.2	36	180	910	4.3K	22K	110K	560K	3M
1.2	6.8	39	200	1 K	4.7K	24K	120K	620K	3.3M
1.3	7.5	43	220	1.1K	5.1K	27K	130K	680K	3.6M
1.5	8.2	47	240	1.2K	5.6K	30K	150K	750K	3.9M
1.6	9.1	51	270	1.3K	6.2K	33K	160K	820K	4.3M
1.8	10	56	300	1.5K	6.6K	36K	180K	910K	4.7M
2.0	11	62	330	1.6K	7.5K	39K	200K	1M	5.1M
2.2	12	68	360	1.8K	8.2K	43K	220K	1.1M	5.6M
2.4	13	75	390	2K	9.1K	47K	240K	1.2M	6.2M
2.7	15	82	430	2.2K	10K	51K	270K	1.3M	6.8M
3.0	16	91	470	2.4K	11K	56K	300K	1.5M	7.5M
3.3	18	100	510	2.7K	12K	62K	330K	1.6M	8.2M
3.6	20	110	560	3K	13K	68K	360K	1.8M	9.1M
3.9	22	120	620	3.2K	15K	75K	390K	2M	10M
4.3	24	130	680	3.3K	16K	82K	430K	2.2M	15M
4.7	27	150	750	3.6K	18K	91 K	470K	2.4M	22M
5.1	30								

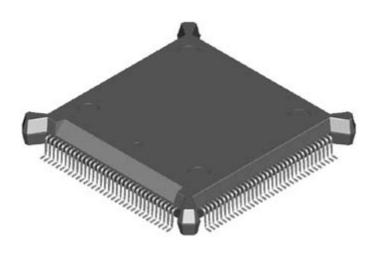
精度为1%的金属膜电阻,以欧姆为单位的标称值:

10	33	10	0	332	1K		3.32K	10.	5K	34K		107	K
357K													
10.2	33.2	102	340	1.02	2K	3.4K	10.7K	3	4.8K	1101	X	360K	
10.5	34	105	348	1.0	5K	3.48K	11K		35.7K	113	ВK	365I	K
10.7	34.8	107	350	1.0	7K	3.57K	11.3K	3	6K	115	K	374K	
11	35.7	110	357	1.1	K	3.6K	11.5K	3	6.5K	118	K	383K	
11.3	36	113	360	1.1	3K	3.65K	11.8K	3	7.4K	120	K	390K	
11.5	36.5	115	365	1.15	5K	3.74K	12K	3	88.3K	121	K	392K	
11.8	37.4	118	374	1.18	3K	3.83K	12.1K	3	9K	124	K	402K	
12	38.3	120	383	1.2	K	3.9K	12.4K	3	39.2K	127	K	412K	(
12.1	39	121	390	1.2	1K	3.92K	12.7K		40.2K	130	K	422K	(
12.4	39.2	124	392	1.24	4K	4.02K	13K	2	41.2K	133	K	430K	(
12.7	40.2	127	402	1.2	7K	4.12K	13.3K	4	2.2K	1371	X	432K	
13	41.2	130	412	1.3	K	4.22K	13.7K		43K	140)K	442]	K
13.3	42.2	133	422	1.33	3K	4.32K	14K	2	43.2K	143	K	453K	(
13.7	43	137	430	1.3	7K	4.42K	14.3K		14.2K	147	K	464K	(
14	43.2	140	432	1.4	K	4.53K	14.7K		45.3K	150	K	470K	ζ.
14.3	44.2	143	442	1.4.	3K	4.64K	15K	2	46.4K	154	K	475K	ζ.
14.7	45.3	147	453	1.4	7K	4.7K	15.4K	4	7K	158	K	487K	ζ.
15	46.4	150	464	1.5	K	4.75K	15.8K		47.5K	160	K	499K	ζ.
15.4	47	154	470	1.5	4K	4.87K	16K		48.7K	162	2K	5111	K
15.8	47.5	158	475	1.5	3K	4.99K	16.2K	4	9.9K	1651	X	523K	

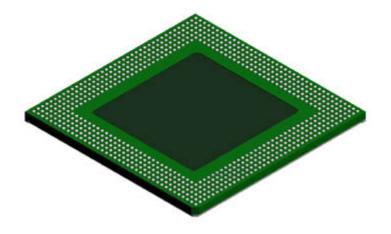
16	48.7	160	487	1.6K	5.1K	16.5K	51K	169K	536K
16.2	49.9	162	499	1.62K	5.11K	16.9K	51.1K	174K	549K
16.5	51	165	510	1.65K	5.23K	17.4K	52.3K	178K	560K
16.9	51.1	169	511	1.69K	5.36K	17.8K	53.6K	180K	562K
17.4	52.3	174	523	1.74K	5.49K	18K	54.9K	182K	576K
17.8	53.6	178	536	1.78K	5.6K	18.2K	56K	187K	590K
18	54.9	180	549	1.8K	5.62K	18.7K	56.2K	191K	604K
18.2	56	182	560	1.82K	5.76K	19.1K	57.6K	196K	619K
18.7	56.2	187	562	1.87K	5.9K	19.6K	59K	200K	620K
19.1	57.6	191	565	1.91K	6.04K	20K	60.4K	205K	634K
19.6	59	196	578	1.96K	6.19K	20.5K	61.9K	210K	649K
20	60.4	200	590	2K	6.	2K	21K	62K	215K
665K									
20.5	61.9	205	604	2.05K	6.34K	21.5K	63.4K	220K	680K
21	62	210	0 61	9 2.	1K 6	5.49K	22K	64.9K	221K
681K									
21.5	63.4	215	620	2.15K	6.65K	22.1K	66.5K	226K	698K
22	64.9	220	634	2.2K	6.8K	22.6K	68K	232K	715K
22.1	66.5	221	649	2.21K	6.81K	23.2K	68.1K	237K	732K
22.6	68	226	665	2.26K	6.98K	23.7K	69.8K	240K	750K
23.2	68.1	232	680	2.32K	7.15K	24K	71.5K	243K	768K
23.7	69.8	237	681	2.37	7.32K	24.3K	73.2K	249K	787K
24	71.5	240	698	2.4K	7.5K	24.9K	75K	255K	806K
24.3	73.2	243	715	2.43K	7.68K	25.5K	76.8K	261K	820K
24.7	75	249	732	2.49K	7.87K	26.1K	78.7K	267K	825K
24.9	75.5	255	750	2.55K	8.06K	26.7K	80.6K	270K	845K
25.5	76.8	261	768	2.61K	8.2K	27K	82K	274K	866K
26.1	78.7	267	787	2.67K	8.25K	27.4K	82.5K	280K	887K
26.7	80.6	270	806	2.7K	8.45K	28K	84.5K	287K	909K
27	82	274	820	2.74K	8.66K	28.7K	86.6K	294K	910K
27.4	82.5	280	825	2.8K	8.8K	29.4K	88.7K	300K	931K
28	84.5	287	845	2.87K	8.87K	30K	90.9K	301K	953K
28.7	86.6	294	866	2.94K	9.09K	30.1K	91K	309K	976K
29.4	88.7	300	887	3.0K	9.1K	30.9K	93.1K	316K	1.0M
30	90.9	301	909	3.01K	9.31K	31.6K	95.3K	324K	1.5M
30.1	91	309	910	3.09K	9.53K	32.4K	97.6K	330K	2.2M
30.9	93.1	316	931	3.16K	9.76K	33K	100K	332K	
31.6	95.3	324	953	3.24K	10K	33.2K	102K	340K	
32.4	97.6	330	976	3.3K	10.2K	33.6K	105K		

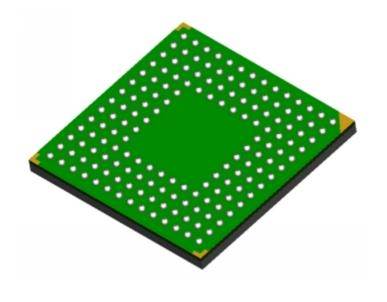


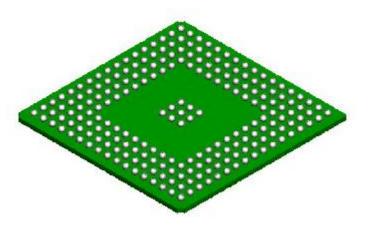
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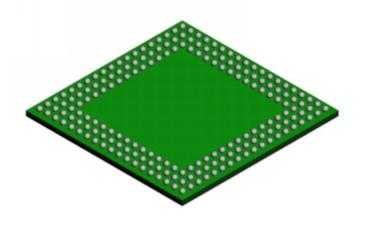
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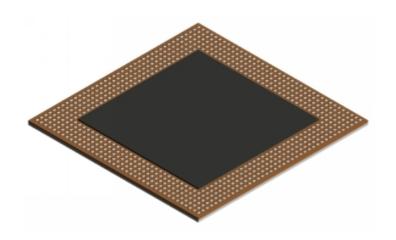


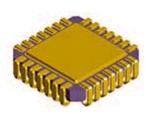




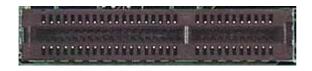
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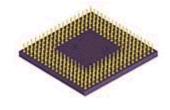








CNR



PGA



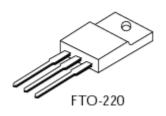
DIP



DIP-tab







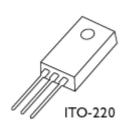
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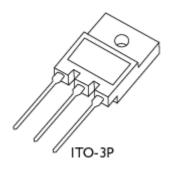
Flat Pack



HSOP28



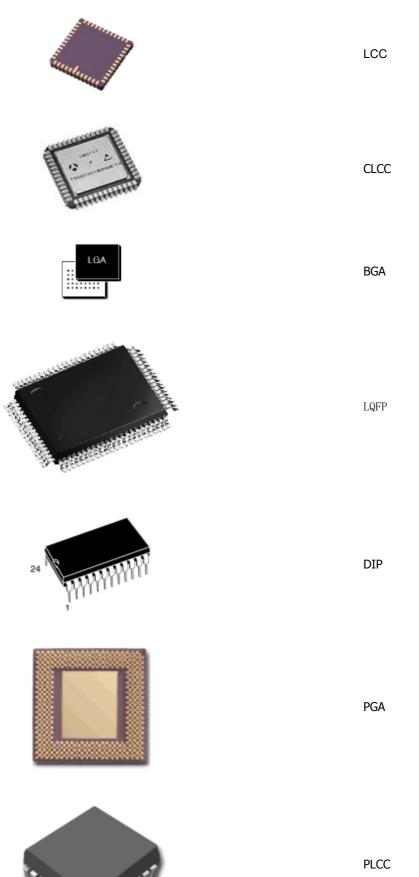
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TO



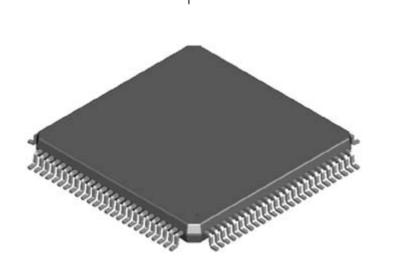
JLCC









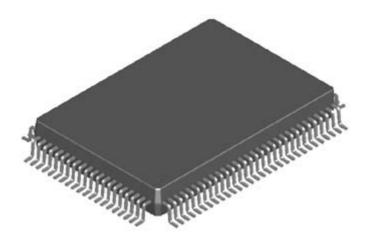


LQFP

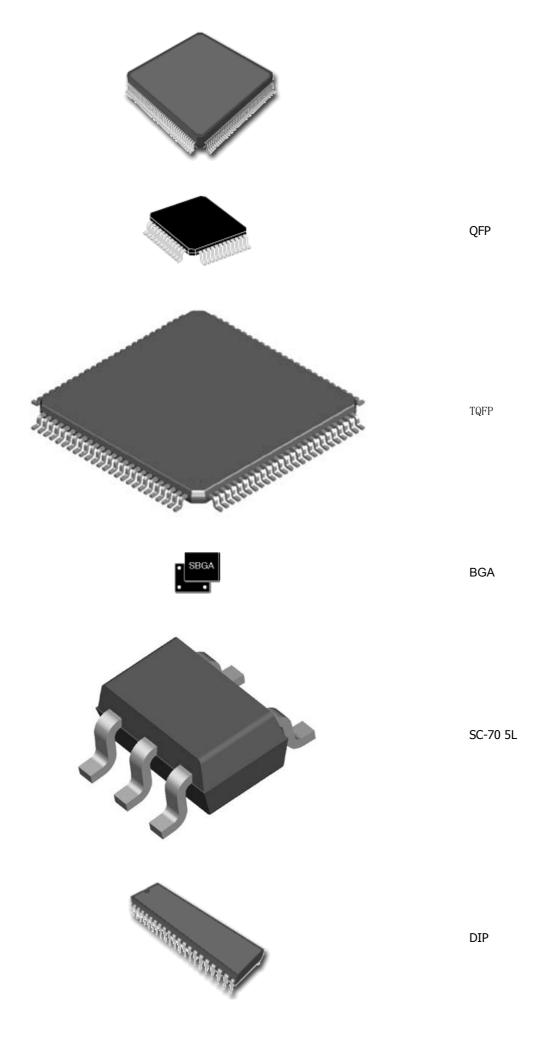
DIP

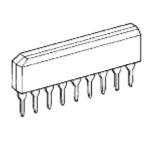


LQFP



PQFP





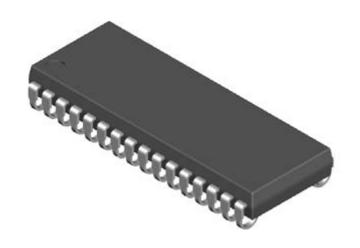
SIP



SO



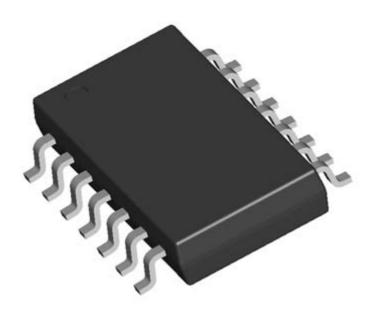
SOH



SOJ



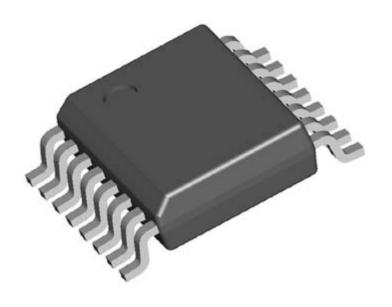
SOJ



SOP



то



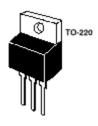
SOP



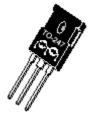
SOP



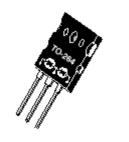
CAN



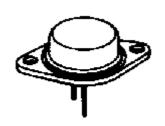
ТО



ТО







TO3



CAN



CAN



CAN



CAN



CAN



TO8



TO92



CAN



CAN

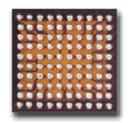


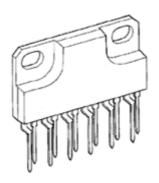
TSOP



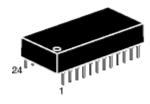
TSSOP or TSOP







ZIP



PCDIP