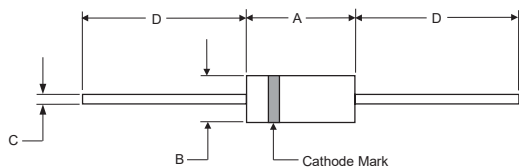


PACKAGE OUTLINES



DO-41G

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	----	0.177	----	4.50	
B	----	0.110	----		Diameter
C	0.026	0.034	0.70	0.90	Diameter
D	1.000	----	25.40	----	

DO-41

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.160	0.205	4.10	5.20	
B	0.080	0.107	2.00	2.70	Diameter
C	0.028	0.034	0.71	0.86	Diameter
D	1.000	----	25.40	----	

DO-35

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	---	.166	---	4.2	
B	---	.079	---	2.00	
C	---	.020	---	.52	
D	1.000	---	25.40	---	

A-405

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.166	.205	4.10	5.20	
B	.080	.107	2.00	2.70	
C	---	.024	---	.60	
D	1.000	---	25.40	---	

DO-15

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.230	.300	5.80	7.60	
B	.104	.140	2.60	3.60	
C	.026	.034	.70	.90	
D	1.000	---	25.40	---	

DO-35G

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	---	.166	---	4.2	
B	---	.079	---	2.00	
C	---	.020	---	.52	
D	1.000	---	25.40	---	

DO-201AD

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.287	.374	7.30	9.50	
B	.189	.208	4.80	5.30	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	

R-1

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.116	0.140	2.90	3.50	
B	0.091	0.102	2.30	2.60	
C	0.020	0.024	0.50	0.60	
D	0.787	----	20.00	----	

DO-201AE

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	---	.370	---	9.50	
B	---	.209	---	5.30	
C	.038	.042	.96	1.06	
D	1.000	---	25.40	---	

R-3

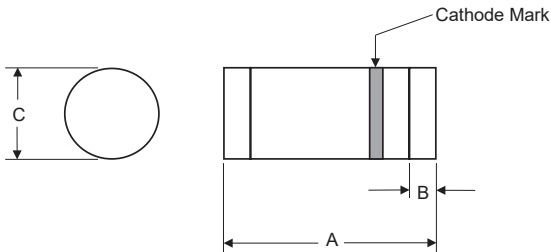
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	---	.160	---	4.10	
B	---	.160	---	4.10	
C	.040	.042	1.01	1.07	
D	1.000	---	25.40	---	

R-6

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.340	.360	8.60	9.10	
B	.340	.360	8.60	9.10	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	

PACKAGE OUTLINES

MELF

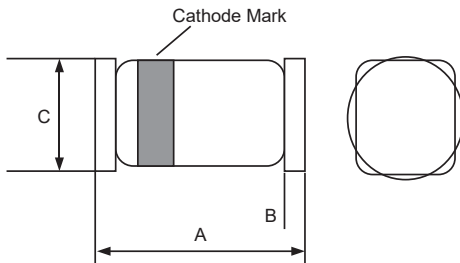


DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.185	.205	4.70	5.20	
B	.01	.02	0.4	0.56	Nominal
C	.095	.105	2.40	2.67	Ø

MINIMELF

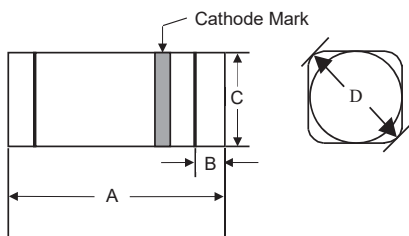
DIMENSION					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.130	.146	3.30	3.70	
B	.008	.016	0.20	0.40	
C	.055	.059	1.40	1.50	

MICROMELF



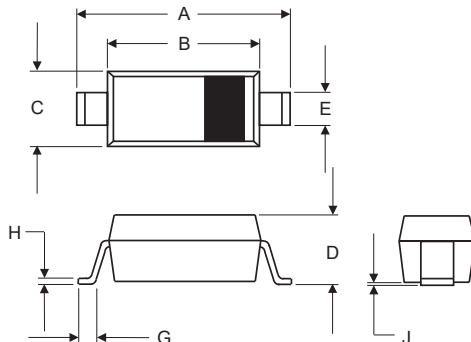
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.071	.079	1.8	2.0	
B	.004	.008	.10	.20	
C	.047	.051	1.20	1.30	Ø

QUADRO MELF



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.130	.146	3.30	3.70	
B	.008	.016	.20	.40	
C	.055	.063	1.40	1.60	Ø
D	.067		1.70		

PACKAGE OUTLINES

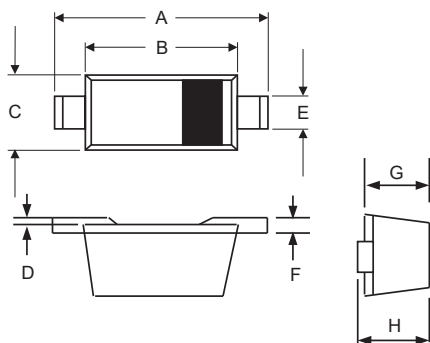


SOD-123

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.14	.152	3.55	3.85	
B	.10	.112	2.55	2.85	
C	.05	.071	1.40	1.80	
D	--	.053	---	1.35	
E	.01	.031	0.30	0.78	
G	.00	---	0.15	---	
H	--	.010	---	0.25	
J	--	.006	---	0.15	

SOD-323

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	



SOD-723

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.051	.059	1.30	1.50	
B	.035	.043	0.90	1.10	
C	.022	.026	0.55	0.65	
D	.001	.003	0.01	0.07	
E	.010	.014	0.25	0.35	
F	.003	.006	0.08	0.15	
G	.020	.023	0.52	0.58	
H	.021	.026	0.53	0.65	

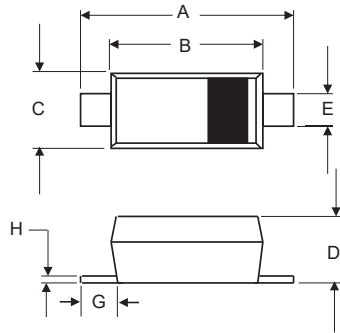
SOD-523

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.043	.051	1.10	1.30	
C	.030	.033	0.75	0.85	
D	.001	.003	0.01	0.07	
E	.010	.014	0.25	0.35	
F	.003	.006	0.08	0.15	
G	.020	.028	0.50	0.70	
H	.020	.031	0.51	0.77	

SOD-923

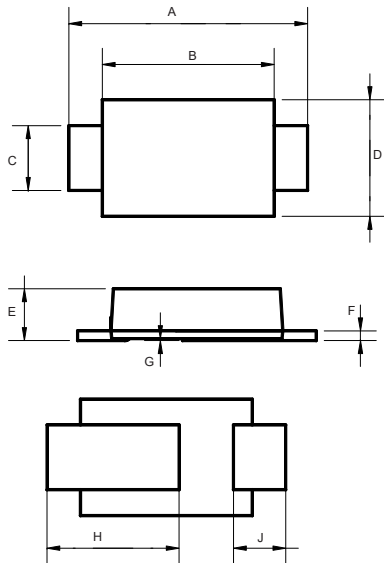
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.037	.041	0.95	1.05	
B	.030	.033	0.75	0.85	
C	.022	.026	0.55	0.65	
D	.014	.017	0.36	0.43	
E	.006	.010	0.15	0.25	
F	.003	.007	0.07	0.17	

PACKAGE OUTLINES



SOD-123FL

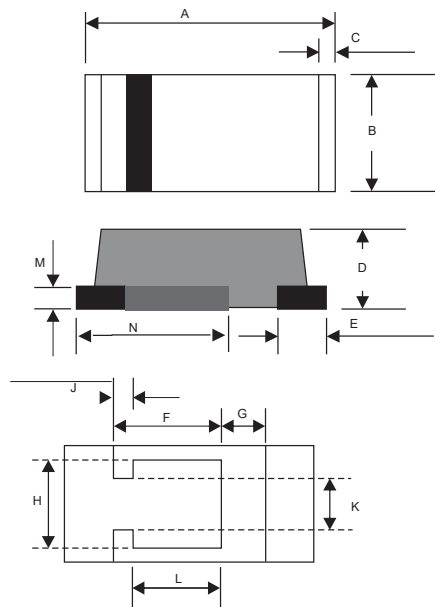
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	.037	.053	0.95	1.35	
E	.020	.039	0.50	1.00	
G	.010	-----	0.25	-----	
H	-----	.008	-----	.20	



SOD-123HE

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.156	3.55	3.95	
B	.100	.112	2.55	2.85	
C	.035	.043	0.90	1.10	
D	.067	.075	1.70	1.90	
E	.028	.035	0.70	0.90	
F	.004	.008	0.10	0.20	
G	.001	.002	0.02	0.05	
H	.067	.098	1.70	2.50	
J	.016	.047	0.40	1.20	

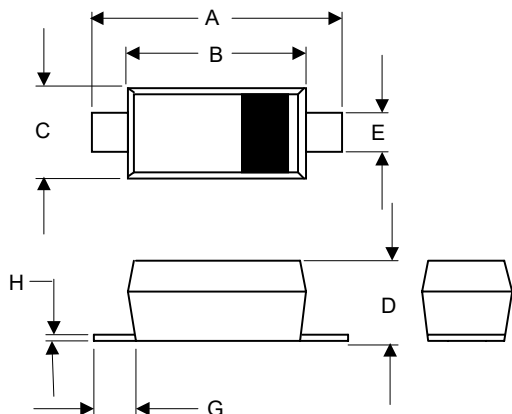
SOD-123HT



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.130	.146	3.30	3.70	
B	.055	.071	1.40	1.80	
C	.012		0.30		
D	.024	.039	0.60	1.00	
E	.031		0.80		
F	.043	.051	1.10	1.30	
G	.028	.032	0.60	0.80	
H	.039	.047	1.00	1.20	
J	.024		0.60		
K	.030	.034	0.75	0.85	
L	.039	.047	1.00	1.20	
M	.004		0.10		
N	.075	.083	2.10	1.90	

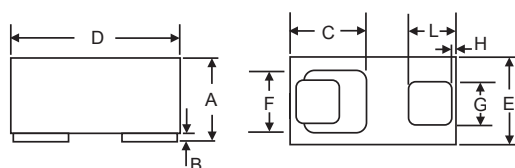
PACKAGE OUTLINES

SOD-323FL

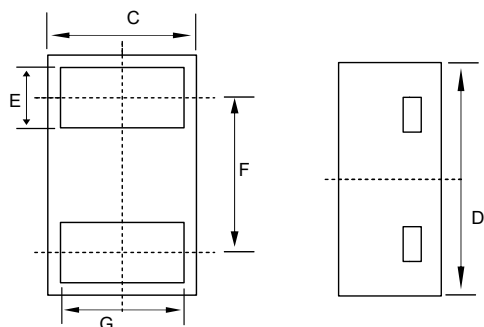
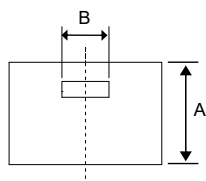


DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.078	1.60	1.95	
C	.045	.053	1.15	1.35	
D	.024	.038	0.60	0.95	
E	.010	.016	0.25	0.40	
G	.016		0.40		
H	.002	.008	0.05	0.21	

SOD-882



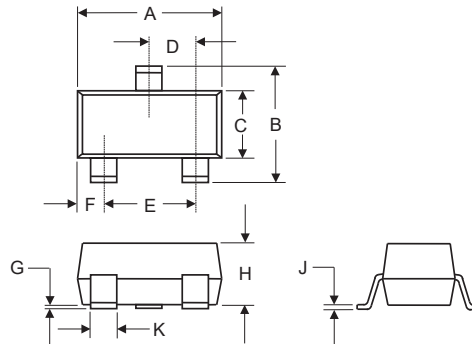
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.018	0.022	0.45	0.55	
B	0.000	0.003	0.01	0.07	
C	0.019REF.		0.470REF.		
D	0.037	0.041	0.95	1.05	
E	0.022	0.026	0.55	0.65	
F	0.017 REF.		0.420 REF.		
G	0.011	0.015	0.27	0.27	
H	0.001 REF.		0.030 REF.		
L	0.013	0.017	0.34	0.44	



SOD-882E

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.018	0.020	0.465	0.50	
B	0.008REF.		0.200REF.		
C	0.022	0.026	0.55	0.65	
D	0.037	0.041	0.95	1.05	
E	0.008	0.012	0.20	0.30	
F	0.025 REF.		0.640 REF.		
G	0.017	0.021	0.44	0.54	

PACKAGE OUTLINES



SOT-23

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.104	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

SOT-23-3L

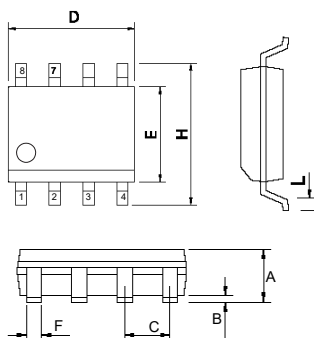
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.113	.117	2.87	2.97	
B	.108	.112	2.75	2.85	
C	.061	.065	1.55	1.65	
D	.036	.038	.925	.975	
E	.073	.077	1.85	1.95	
G	.0016	.0039	.04	.100	
H	.044	.049	1.12	1.25	
J	.006	.007	.14	.17	
K	.013	.015	.34	.37	

SOT-323

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.071	.087	1.80	2.20	
B	.083	.096	2.10	2.45	
C	.045	.053	1.15	1.35	
D	.026 Nominal		0.65Nominal		
E	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
H	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.006	.016	.15	.40	

SOT-523

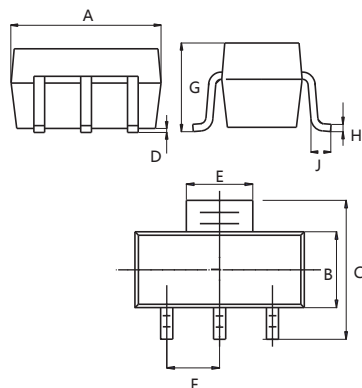
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.057	.069	1.45	1.75	
C	.030	.033	0.75	0.85	
D	.020 Nominal		0.50Nominal		
E	.035	.043	0.90	1.10	
G	.000	.004	.000	.100	
H	.028	.031	.70	0.80	
J	.004	.008	.100	.200	
K	.010	.014	.25	.35	



SOP-8

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.053	.069	1.35	1.75	
B	.004	.010	0.10	0.25	
C	0.050BSC		1.27BSC		
F	.013	.020	0.33	0.51	
D	.189	.197	4.80	5.00	
E	.150	.157	3.80	4.00	
H	.228	.244	5.80	6.20	
L	.016	.050	0.4	1.27	

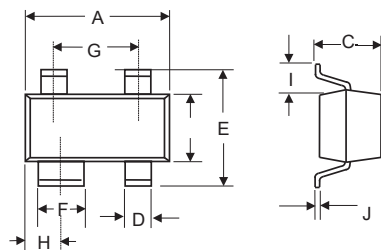
PACKAGE OUTLINES



SOT-223

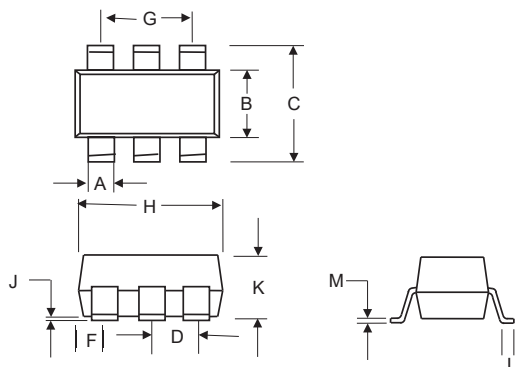
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.248	.264	6.30	6.70	
B	.130	.146	3.30	3.70	
C	.264	.287	6.70	7.30	
D	.001	.004	0.02	0.10	
E	.114	.122	2.90	3.10	
F	.091		2.30		
G	--	.071	--	1.80	
H	.009	.014	0.23	0.35	
J	.030	--	0.75	--	

SOT-143



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.047	.055	1.20	1.39	
C	.033	.045	0.84	1.14	
D	.012	.020	0.30	0.50	
E	.083	.098	2.11	2.50	
F	.031	.037	0.79	0.93	
G	.070	.080	1.78	2.03	
H	.028	.033	0.72	0.83	
I	.018	.024	0.46	0.60	
J	.003	.006	0.08	0.15	

SOT-363



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.006	.014	0.15	0.35	
B	.045	.053	1.15	1.35	
C	.085	.096	2.15	2.45	
D	.026		0.65Nominal		
G	.047	.055	1.20	1.40	
H	.071	.087	1.80	2.20	
J	---	.004	---	0.10	
K	.035	.043	0.90	1.10	
L	.010	.018	0.26	0.46	
M	.003	.006	0.08	0.15	

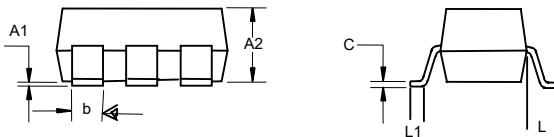
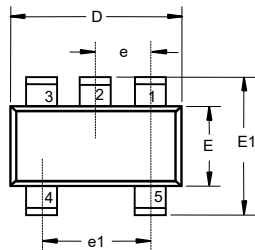
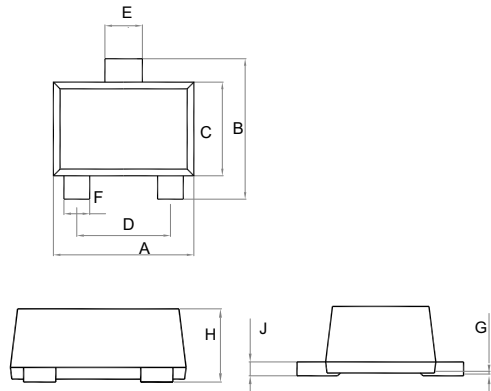
SOT23-6L

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.013	.020	0.35	0.50	
B	.060	.066	1.52	1.68	
C	.106	.114	2.70	2.90	
D	.037		0.95BSC		
G	.074		1.90BSC		
H	.111	.117	2.82	2.98	
J	.002	.006	0.05	0.15	
K	.035	.051	0.90	1.30	
L	.013	.021	0.35	0.55	
M	.003	.008	0.08	0.22	

PACKAGE OUTLINES

SOT-723

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.045	.049	1.15	1.25	
B	.045	.049	1.15	1.25	
C	.030	.033	0.75	0.85	
D	.031TYP.		0.80TYP.		
E	.011	.015	0.27	0.37	
F	.007	.011	0.17	0.27	
G	.000	.002	.000	.050	
H	.017	.020	0.43	0.50	
J	.003	.006	.080	.150	

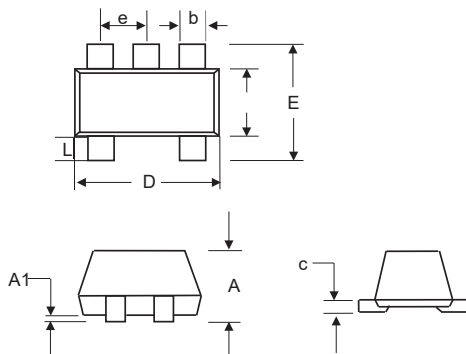


SOT-353

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A1	---	.004	---	0.100	
A2	.035	.039	0.900	1.000	
b	.006	.014	0.150	0.350	
c	.003	.006	0.080	0.150	
D	0.79	.087	2.000	2.200	
E	.045	.053	1.150	1.350	
E1	.085	.096	2.150	2.450	
e	.026TYP		0.650TYP		
e1	.047	.055	1.200	1.400	
L	.021REF		0.525REF		
L1	.010	.018	0.260	0.460	

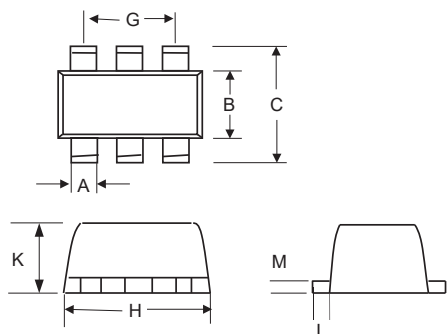
SOT-553

DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	.021	.024	.525	.60
A1	.0	.002	.00	.05
e	.018	.022	.45	.55
c	.004	.006	.09	.16
D	.059	.067	1.5	1.7
b	.007	.011	.17	.27
E1	.04	.051	1.1	1.3
E	.059	.067	1.5	1.7
L	.004	.012	.100	.300



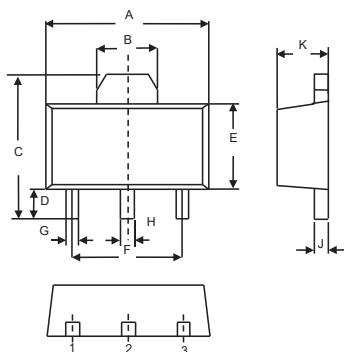
PACKAGE OUTLINES

SOT-563



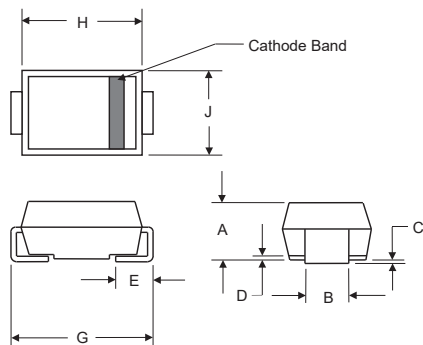
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.006	.011	0.15	0.30	
B	.043	.049	1.10	1.25	
C	.061	.067	1.55	1.70	
D	.02		0.50		
G	.035	.043	0.90	1.10	
H	.059		1.50	1.70	
K	.022	.023	0.56	0.60	
L	.004	.011	0.10	0.30	
M	.004	.007	0.10	0.18	

SOT-89



DIMENSIONS					
DIM	INCHES		MM		NOTES
	MIN	MAX	MIN	MAX	
A	.173	.181	4.39	4.60	
B	.063	.071	1.60	1.80	
C	.154	.165	3.91	4.25	
D	.031	.039	0.80	1.00	
E	.092	.100	2.34	2.54	
F	.118	-----	3.00	-----	TYP
G	.013	.019	0.33	0.48	
H	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	

SMA (DO-214AC)



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.075	.096	1.90	2.44	
B	.055	.062	1.40	1.60	
C	.002	.008	0.051	0.203	
E	.030	.060	0.76	1.52	
G	.188	.208	4.80	5.28	
H	.157	.181	4.00	4.60	
J	.098	.114	2.50	2.90	

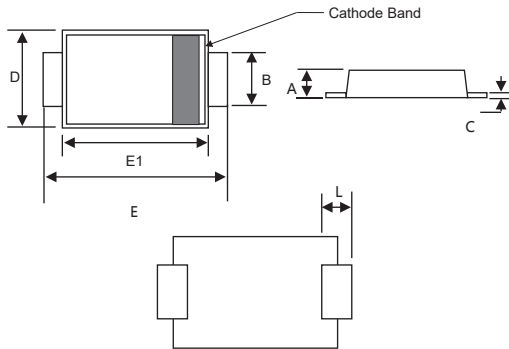
SMB (DO-214AA)

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.083	.096	2.13	2.44	
B	.075	.083	1.91	2.11	
C	.002	.008	.051	.203	
D	-----	.02	-----	.51	
E	.030	.060	0.76	1.52	
G	.200	.220	5.08	5.59	
H	.160	.185	4.06	4.70	
J	.130	.155	3.30	3.94	

SMC (DO-214AB)

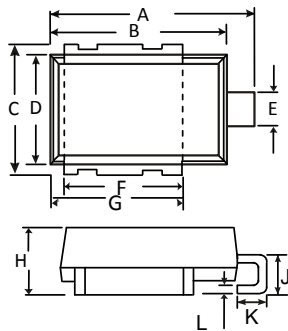
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.079	.103	2.00	2.62	
B	.108	.128	2.75	3.25	
C	.002	.008	0.051	0.203	
D	-----	.020	-----	0.51	
E	.030	.060	0.76	1.52	
G	.305	.320	7.75	8.13	
H	.260	.280	6.60	7.11	
J	.220	.245	5.59	6.22	

PACKAGE OUTLINES



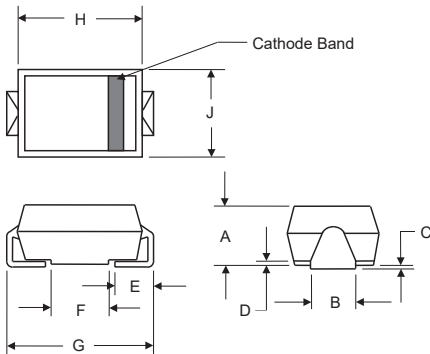
SMA-FL(DO-221AC)

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.035	.047	0.90	1.20	
B	.049	.065	1.25	1.65	
C	.004	.016	.010	0.40	
D	.089	.116	2.25	2.95	
E	.173	.220	4.40	5.60	
E1	.126	.181	3.20	4.60	
L	.028	.059	0.70	1.50	



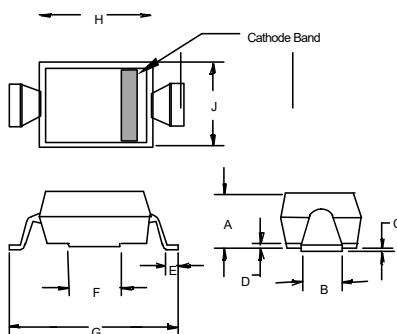
DO-218AB

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.590	0.630	15.00	16.00	
B	0.524	0.539	13.30	13.70	
C	0.374	0.413	9.50	10.50	
D	0.323	0.339	8.20	8.60	
E	0.091	0.114	2.30	2.90	
F	0.343	0.366	8.70	9.30	
G	0.382	0.406	9.70	10.30	
H	0.189	0.205	4.80	5.20	
J	0.098	0.138	2.50	3.50	
K	0.067	0.106	1.70	2.70	
L	0.020	0.028	0.50	0.70	



SMAE

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.079	.096	2.01	2.44	
B	.045	.071	1.15	1.80	
C	.002	.008	.05	.20	
D	---	.02	---	.51	
E	.030	.060	.76	1.52	
G	.189	.208	4.80	5.30	
H	.157	.180	4.00	4.57	
J	.090	.115	2.29	2.92	

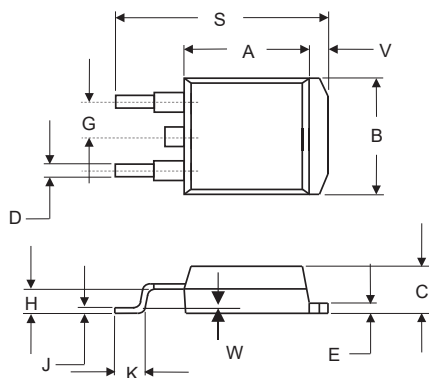


HSMBG (DO-215AA)

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.075	.116	1.90	2.95	
B	.078	.087	1.98	2.21	
C	.002	.008	.05	.20	
D	—	.02	—	.51	
E	.015	.03	.38	.76	
F	.065	.084	1.65	2.13	
G	.245	.276	6.22	7.00	
H	.160	.180	4.06	4.57	
J	.130	.151	3.30	3.83	

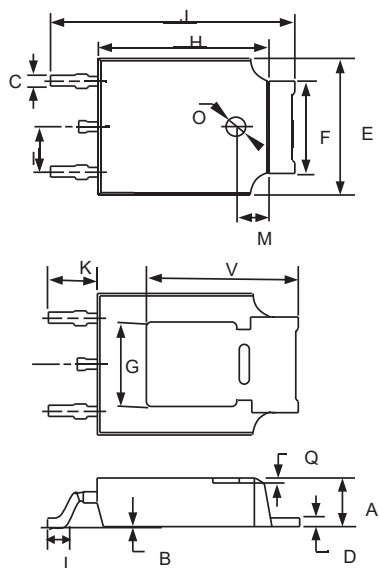
PACKAGE OUTLINES

D²-PACK



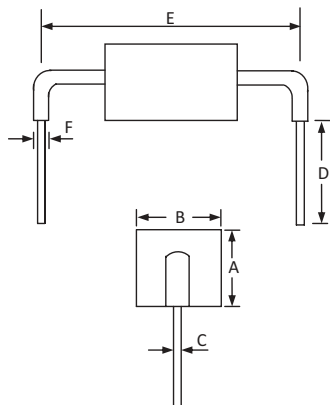
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.320	.359	8.13	9.14	
B	.380	.411	9.65	10.45	
C	.160	.190	4.06	4.83	
D	.020	.035	0.51	0.89	
E	.045	.055	1.14	1.40	
G	.095	.105	2.41	2.67	
H	.096	.134	2.43	3.40	
J	.014	.021	0.35	0.53	
K	.090	.131	2.29	3.32	
S	.575	.625	14.22	16.22	
V	.045	.055	1.14	1.40	
W	0	.006	0	0.15	

D-PACK



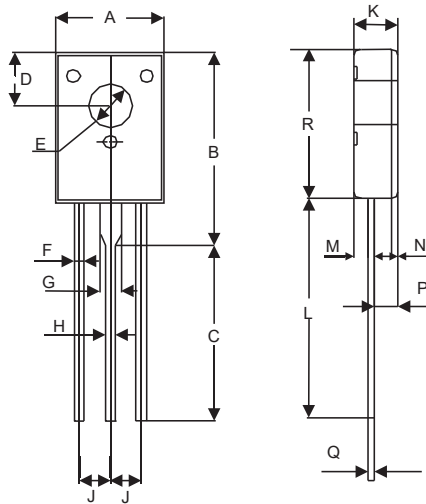
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	0.235	0.250	5.97	6.35	
B	0.250	0.265	6.35	6.73	
C	0.086	0.094	2.19	2.38	
D	0.027	0.035	0.69	0.88	
E	0.033	0.040	0.84	1.01	
F	0.037	0.047	0.94	1.19	
G	0.180	BCS	4.85	BCS	
H	0.034	0.040	0.87	1.01	
J	0.018	0.023	0.46	0.58	
K	0.102	0.114	2.60	2.89	
L	0.090	BCS	2.29	BCS	
R	0.175	0.215	4.45	5.46	
S	0.020	0.050	0.51	1.27	
U	0.020	-----	0.51	-----	
V	0.030	0.050	0.77	1.27	

AK



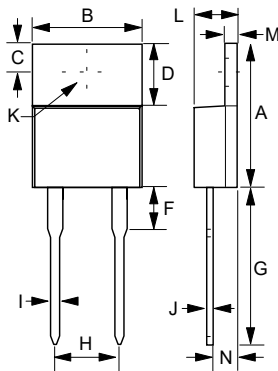
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	---	.630	---	16.00	
B	---	.709	---	18.00	
C	.047	.052	1.20	1.32	
D	.197	---	5.00	---	
E	.922	.979	23.43	24.87	
F	---	.157	---	4.00	

PACKAGE OUTLINES



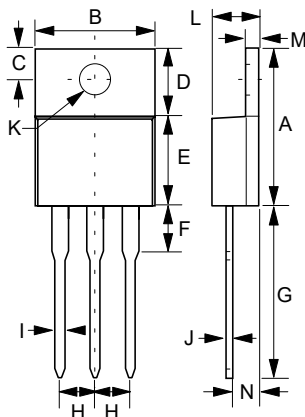
TO-126

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.30	0.33	7.70	8.30	
B	---	0.56	---	14.20	
C	0.50	0.53	12.76	13.36	
D	0.15	0.16	3.80	4.0	
E	0.12	0.13	3.10	3.30	
F	0.025	0.033	0.65	0.85	
G	0.06	0.07	1.50	1.70	
H	0.025	0.033	0.65	0.85	
J	0.08	0.10	2.08	2.48	
K	0.12	0.14	3.05	3.45	
L	0.63	0.64	15.90	16.30	
M	---	0.04	---	1.0	
N	---	0.02	---	0.5	
P	0.06	0.08	1.55	1.95	
Q	0.018	0.023	0.45	0.60	
R	0.43	0.44	10.80	11.20	



TO-220AC

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.560	.625	14.22	15.88	
B	.380	.420	9.65	10.67	
C	.100	.135	2.54	3.43	
D	.230	.270	5.84	6.86	
F	-----	.250	-----	6.35	
G	.500	.580	12.70	14.73	
H	.190	.210	4.83	5.33	
I	.020	.045	0.51	1.14	
J	.012	.025	0.30	0.64	
K	.139	.161	3.53	4.09	
L	.140	.190	3.56	4.83	
M	.045	.055	1.14	1.40	
N	.080	.115	2.03	2.92	

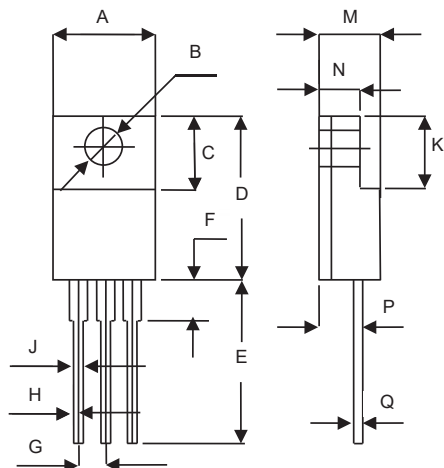


TO-220AB

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.56	.625	14.22	15.88	
B	.38	.420	9.65	10.67	
C	.10	.135	2.54	3.43	
D	.23	.270	5.84	6.86	
E	.380	.420	9.65	10.67	
F	-----	.250	-----	6.35	
G	.500	.580	12.70	14.73	
H	.090	.110	2.29	2.79	
I	.02	.045	0.51	1.14	
J	.012	.025	0.30	0.64	
K	.139	.161	3.53	4.09	Ø
L	.140	.190	3.56	4.83	
M	.045	.055	1.14	1.52	
N	.080	.115	2.03	2.92	

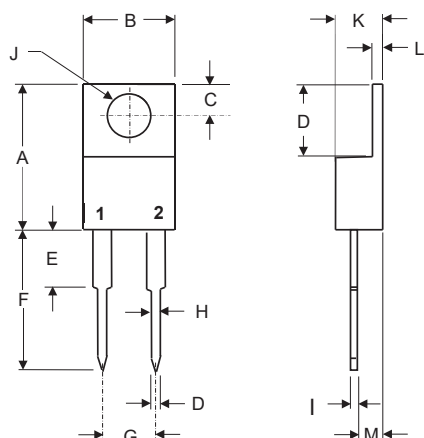
PACKAGE OUTLINES

ITO-220AB



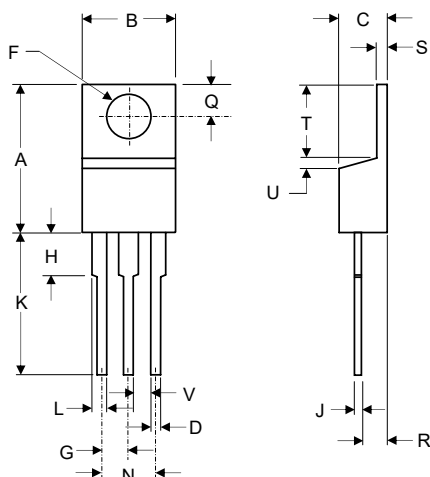
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.58	.642	14.80	16.30	
B	---	.406	---	10.30	
C	.10	.112	2.55	2.85	
D	.24	.272	6.30	6.90	
E	---	.161	---	4.10	
F	---	.071	---	1.80	
G	.51	.543	13.00	13.80	
H	.100		2.55		
I	---	.035	---	0.90	
J	---	.032	---	0.80	
K	.10	.134	2.80	3.40	Ø
L	---	.189	---	4.80	
M	---	.130	---	3.30	
N	.09	.114	2.50	2.90	
O	---	.055	---	1.40	

ITO-220AC



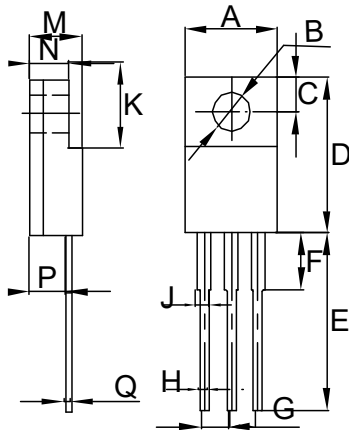
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.583	.606	14.80	15.40	
B	---	.406	---	10.30	
C	.100	.112	2.55	2.85	
D	.248	.272	6.30	6.90	
E	---	.161	---	4.10	
F	.512	.543	13.00	13.80	
G	.20		5.10		
H	---	.035	---	0.90	
I	---	.032	---	0.80	
J	.118	.134	3.00	3.40	Ø
K	---	.189	---	4.80	
L	---	.123	---	3.10	
M	.098	.114	2.50	2.90	

TO-220



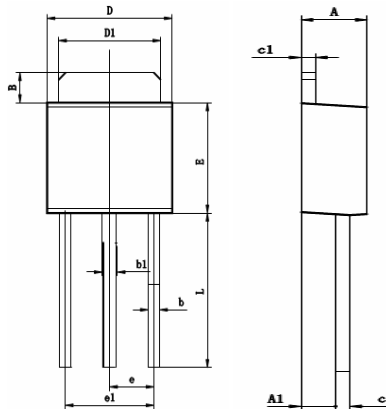
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.560	.625	14.22	15.88	
B	.380	.420	9.65	10.67	
C	.140	.190	3.56	4.82	
D	.020	.045	0.51	1.14	
F	.139	.161	3.53	4.09	Ø
G	.190	.110	2.29	2.79	
H	---	.250	---	6.35	
J	.012	.025	0.30	0.64	
K	.500	.580	12.70	14.73	
L	.045	.060	1.14	1.52	
N	.190	.210	4.83	5.33	
Q	.100	.135	2.54	3.43	
R	.080	.115	2.04	2.92	
S	.045	.055	1.14	1.39	
T	.230	.270	5.84	6.86	
U	-----	.050	-----	1.27	
V	.045	-----	1.15	-----	

PACKAGE OUTLINES



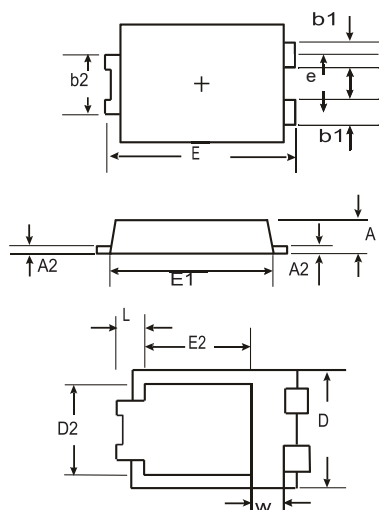
TO-220F

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MM	MIN	MM	
A	.39	.408	9.96	10.36	
B	.138		3.50		Φ
C	.106		2.70		
D	.583	.598	14.80	15.20	
E	.520		13.20		
F	.142	.158	3.60	4.00	
G	.100		2.54		
H	.020	.030	0.50	0.75	
J	.043	.053	1.10	1.35	
M	.169	.185	4.30	4.70	
N	.110	.126	2.80	3.20	
P	.098	.114	2.50	2.90	
Q	.020	.030	0.50	0.75	



TO-251

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.087	.094	2.20	2.40	
A1	.042	.054	1.05	1.35	
B	.053	.065	1.35	1.65	
b	.020	.028	0.50	0.70	
b1	.028	.035	0.07	0.09	
c	.017	.023	0.43	0.58	
c1	.017	.023	0.43	0.58	
D	.250	.262	6.35	6.65	
D1	.205	.213	5.20	5.40	
E	.213	.224	5.40	5.70	
e1	0.091TYP		2.300TYP		
e	.177	.185	4.50	4.70	
L	.295	.311	7.50	7.90	

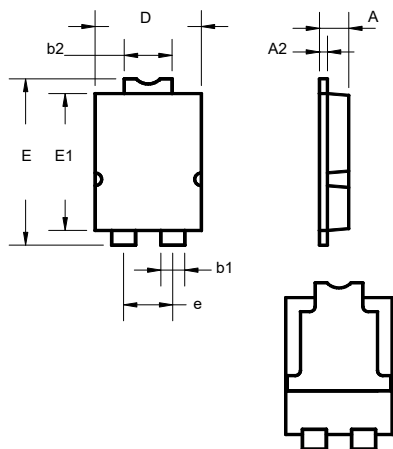


TO-277B

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.039	.047	1.00	1.20	
A2	.006	.017	0.15	0.43	
b1	.030	.041	0.75	1.05	
b2	.065	.077	1.65	1.95	
D	.148	.169	3.75	4.30	
D2	.110	.126	2.80	3.20	
E	.250	.264	6.35	6.70	
e	.065	.077	1.65	1.95	
E1	.207	.228	5.25	5.80	
E2	.120	.142	3.05	3.60	
L	.028	.051	0.70	1.30	
W	.031	.056	0.80	1.42	

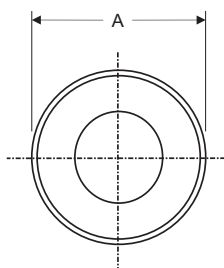
PACKAGE OUTLINES

TO-277



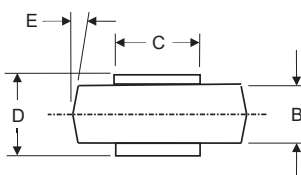
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.041	.045	1.05	1.15	
A2	.010	.014	0.25	0.35	
b1	.031	.039	0.80	1.00	
b2	.067	.075	1.70	1.90	
D	.154	.161	3.90	4.10	
E	.252	.260	6.40	6.60	
E1	.20	.215	5.20	5.40	
e	.071	.075	1.80	1.90	

RA



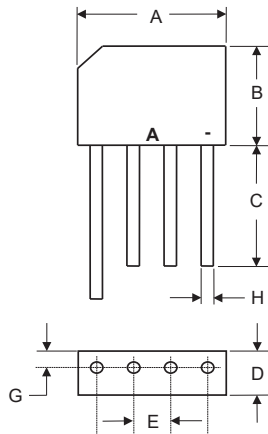
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.380	.410	9.7	10.4	Ø
B	.165	.185	4.2	4.7	
C	.215	.225	5.5	5.7	Ø
D	.235	.250	6.0	6.4	Ø
E	-----	5°	-----	5°	NOM

SRA



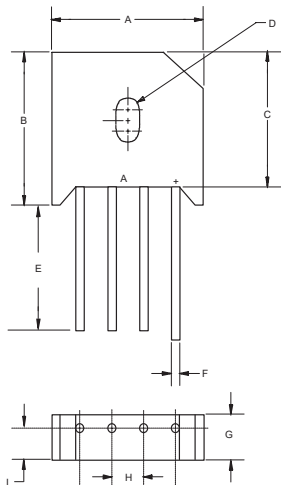
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.327	.347	8.3	8.9	Ø
B	.165	.185	4.2	4.7	
C	.215	.225	5.5	5.7	Ø
D	.235	.250	6.0	6.4	Ø
E	----	5°	----	5°	NOM

PACKAGE OUTLINES



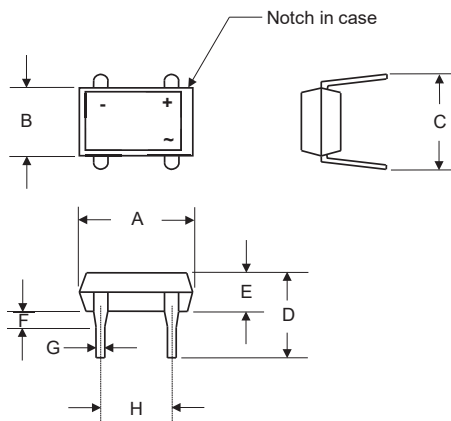
RS-4L

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.728	.768	18.50	19.50	
B	.600	.640	15.20	16.30	
C	.750	----	19.00	----	
D	.236	.256	6.00	6.50	
E	.180	.220	4.60	5.60	3 PL
G	----	.083	----	2.10	
H	.048	.052	1.20	1.30	Ø



RS-6

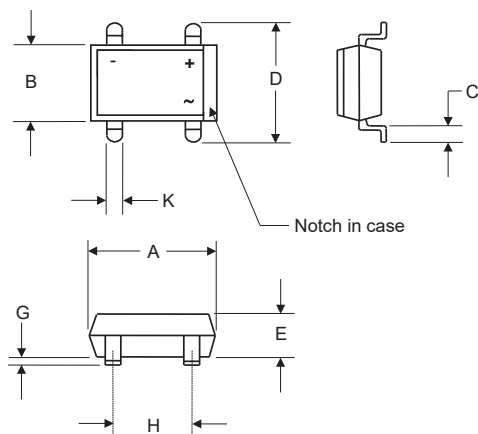
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.895	.935	22.70	23.70	
B	---	.760	---	19.30	
C	.660	.728	16.80	18.50	
D	.15Ø x	.23L	3.8Ø x	5.57L	HOLE
E	.787	---	20.00	---	
F	.048	.052	1.20	1.30	TYP
G	.260	.280	6.60	7.10	
H	.180	.220	4.60	5.60	
I	.181	.205	4.60	5.20	



DB-1

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.316	.335	8.05	8.51	
B	.245	.255	6.20	6.50	
C	.300	.350	7.60	8.90	
D	.236	.299	6.01	7.60	
E	.102	.130	2.60	3.30	
F	.060		1.50		Typ
G	.016	.022	0.41	0.56	Typ
H	.195	.205	5.00	5.20	

PACKAGE OUTLINES

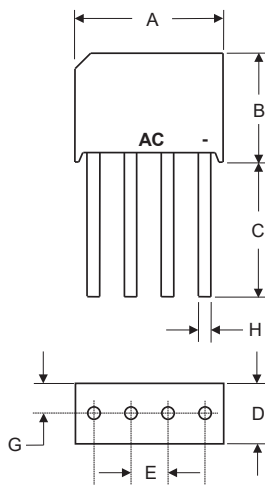


SDB-1

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.316	.335	8.05	8.51	
B	.245	.255	6.20	6.50	
C	.040	.060	1.02	1.50	
D	.360	.410	9.40	10.4	
E	.102	.130	2.60	3.30	
G	.003	.013	.076	.330	
H	.195	.205	5.00	5.20	
K	.038	.047	1.00	1.20	

SDBL-1

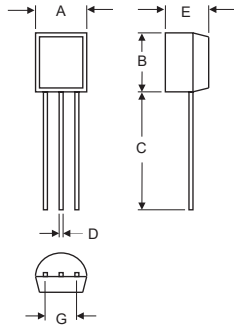
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.320	.335	8.12	8.51	
B	.244	.256	6.20	6.50	
C	.040	.060	1.02	1.53	
D	.366	.413	9.30	10.5	
E	.087	.095	2.20	2.40	
F	.006	.013	0.15	.33	
G	.003	.013	.076	0.33	
H	.195	.205	5.00	5.20	
K	.037	.047	0.95	1.20	



BR-8D

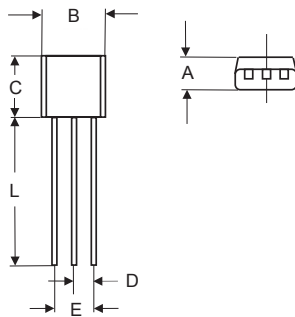
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	---	.693	---	17.54	
B	---	.532	---	13.50	
C	---	1.00	---	25.40	
D	.236	.255	6.00	6.45	
E	.145	---	3.70	---	3PL/TYP
G	---	.125	---	.20	TYP
H	.030	---	.76	---	

PACKAGE OUTLINES



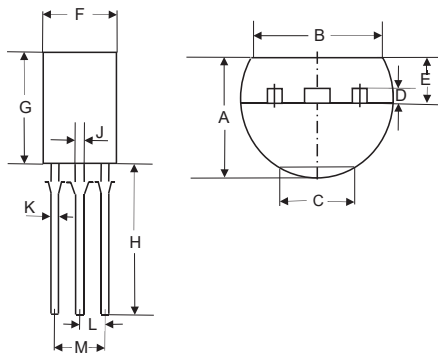
TO-92

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.175	.185	4.45	4.70	
B	.175	.185	4.45	4.70	
C	.500	---	12.70	---	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
	.173	.220	4.40	5.60	Bent



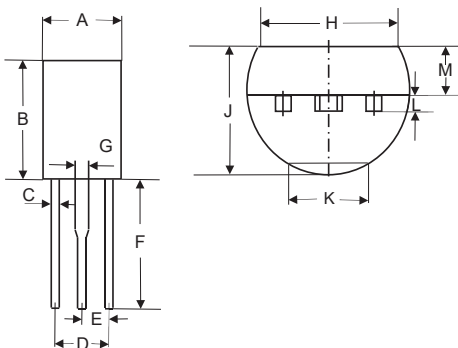
TO-92S

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.056	.064	1.42	1.62	
B	.154	.161	3.90	4.10	
C	.120	.128	3.05	3.25	
D	.050		1.27		Straight Lead
	.086	.110	2.20	2.80	Bent Lead
E	.096	.104	2.44	2.64	Straight Lead
	.173	.220	4.40	5.60	Bent Lead
L	.594	.610	5.10	15.50	



TO-92L

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.146	.161	3.700	4.100	
B	.157	---	4.000	---	
C	0.000	0.012	0.000	0.300	
D	.014	.018	0.350	0.450	
E	.050	.062	1.280	1.580	
F	.185	.201	4.700	5.100	
G	.307	.323	7.800	8.200	
H	.543	.559	13.80	14.20	
J	.024	.031	.600	.800	
K	.014	.022	0.350	.550	
L	.050		1.270		Straight Lead
	.086	.110	2.200	2.800	Bent Lead
M	.096	.104	2.440	2.640	Straight Lead
	.173	.220	4.400	5.600	Bent Lead

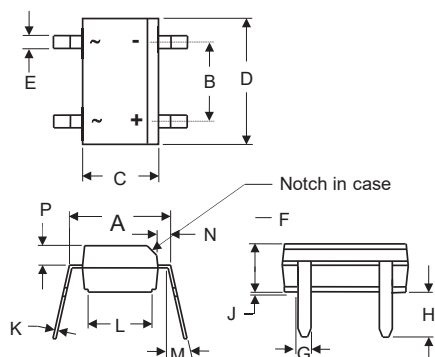


TO-92MOD

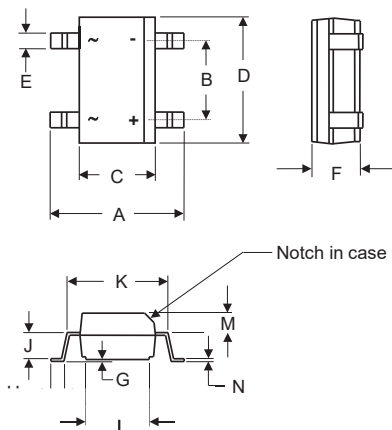
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.228	.244	5.80	6.20	
B	.331	.346	8.40	8.80	
C	.016	.024	0.40	0.60	
D	.114	.122	2.90	3.10	Straight Lead
	.173	.220	4.40	5.60	Bent Lead
E	.059		1.50		Straight Lead
	.086	.110	2.20	2.80	Bent Lead
F	.543	.559	13.80	14.20	
G	.035	.043	0.90	1.10	
H	.157	---	4.00	---	
J	.185	.201	4.70	5.10	
K	---	.063	---	1.60	
L	.016	.020	0.40	0.50	
M	.068	.080	1.73	2.03	

PACKAGE OUTLINES

MB-1



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.195	.205	4.95	5.21	
B	.095	.105	2.41	2.67	
C	.144	.161	3.65	4.10	
D	.179	.190	4.55	4.83	
E	.039	.049	0.99	1.24	
F	.090	.106	2.30	2.70	
G	.017	.029	0.43	0.74	
H	.132	.148	3.35	3.75	
K	.006	.016	0.15	0.41	
L	.137	.147	3.48	3.73	
M	10°	15°	10°	15°	
N	.020	.028	0.51	0.71	



MBS-1

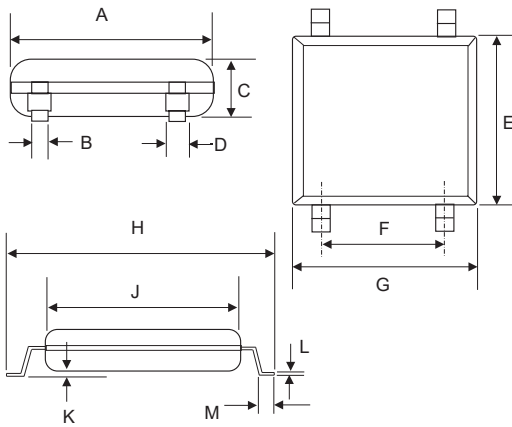
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.252	.272	6.40	6.90	
B	.095	.105	2.41	2.67	
C	.144	.161	3.65	4.10	
D	.179	.195	4.55	4.95	
E	.017	.029	0.45	0.75	
F	.090	.106	2.30	2.70	
G	.004	.008	0.10	0.20	
H	.019	.038	0.48	0.96	
J	.058	.062	1.47	1.57	
K	.195	.205	4.95	5.21	
L	.110	.114	2.80	2.90	
M	.039	.049	0.99	1.24	
N	.006	.016	0.15	0.41	

MBLS-1

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.252	.283	6.40	7.20	
B	.087	.102	2.20	2.60	
C	.142	.193	3.60	4.90	
D	.179	.195	4.55	4.95	
E	.022	.033	0.55	0.84	
F	.045	.063	1.15	1.60	
G	.000	.008	0.00	0.20	
H	.016	.043	0.40	1.1	
N	.004	.016	0.10	0.35	

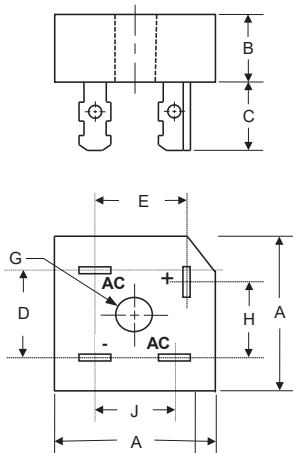
PACKAGE OUTLINES

LMBS-1



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.197	.205	4.90	5.20	
B	.024		0.6		
C	----	.059	----	1.50	
D	.024	.032	0.60	0.80	
E	----	.189	----	4.80	
F	.150	.165	3.80	4.20	
G	----	.209	----	5.30	
H	.236	.252	6.00	6.60	
J	.177	.185	4.30	4.70	
K	.0009	.004	0.02	0.21	
L	.006	.012	0.15	0.30	
M	.017	.031	0.25	0.80	

MB-35

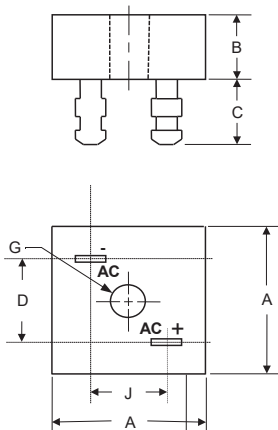


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.115	1.135	28.33	28.83	
B	.427	.447	10.85	11.35	
C	.428	.468	10.87	11.89	
D	.688	.730	17.48	18.50	
E	.618	.658	15.70	16.71	
G	.200	---	5.08	---	Ø
H	.618	.658	15.70	16.71	
J	.530	.570	13.46	14.48	

MP-50

Same as MB-35 but the case is made up of a metal and plastic construction instead of just metal.

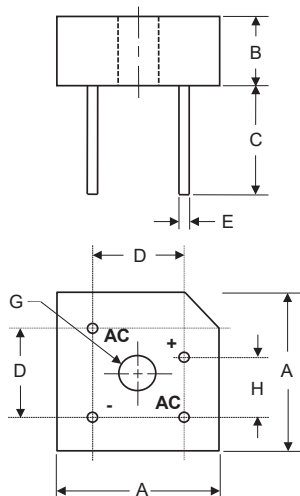
MB-35D



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	----	1.142	----	29.00	
B	----	.453	----	11.50	
C	.425	.480	10.80	12.20	
D	.691	.732	17.54	18.60	
G	.188	----	4.77	----	
J	.543	.583	13.80	14.80	

PACKAGE OUTLINES

MB-35W

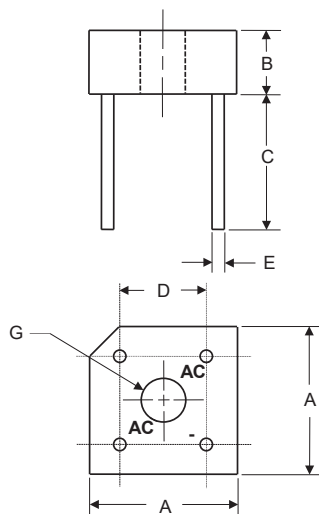


DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.115	1.135	28.33	28.83	
B	.427	.447	10.85	11.35	
C	.774	----	19.65	----	
D	.673	.752	17.10	19.10	
E	.038	.042	.96	1.07	Ø TYP
G	.193	----	4.90	----	Ø
H	.429	.468	10.90	11.90	

MP-50W

Same as MB-50W but the case is made up of a metal and plastic construction instead of just metal.

PB-6



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.578	.618	14.69	15.71	2PL
B	.230	.270	5.84	6.86	
C	.750	---	9.10	---	
D	.405	.444	10.30	11.30	2PL
E	.038	.042	0.97	1.07	4PL/TY
G	.145	---	3.70	---	Ø

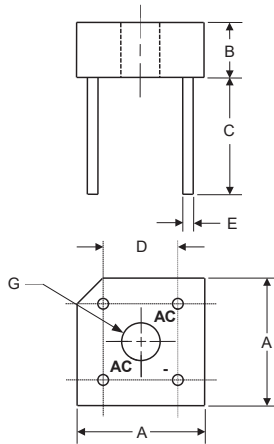
BR-6

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.578	.618	14.69	15.71	2PL
B	.230	.270	5.84	6.86	
C	.750	---	19.10	---	
D	.405	.444	10.70	11.30	2PL
E	.038	.042	0.97	1.07	4PL/TYP
G	.145	---	3.70	---	Ø

Note: The BR-6 Case is made of ceramic material

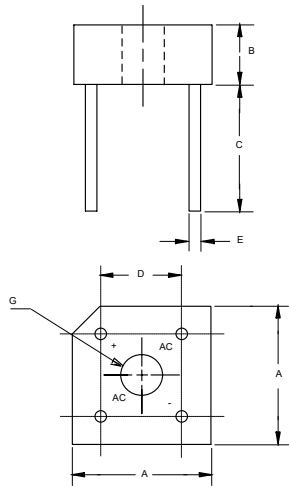
PACKAGE OUTLINES

PB-3



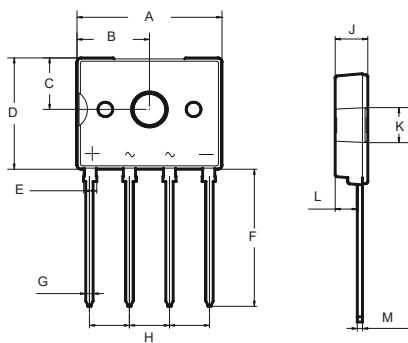
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.580	.620	14.69	15.71	2 PL
B	.230	.270	5.84	6.86	
C	.750	----	19.00	----	
D	.405	.445	10.29	11.31	2 PL
E	.028	.032	0.71	0.81	Ø TYP
G	.140	.150	3.56	3.81	Ø

PB-10



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.730	.770	18.50	19.56	2PL
B	.250	.300	6.35	7.60	
C	.750	---	19.10	---	
D	.480	.520	12.20	13.20	2PL
E	.050		1.27		4PL/TYP
G	HOLE FOR NO 6 SCREW				

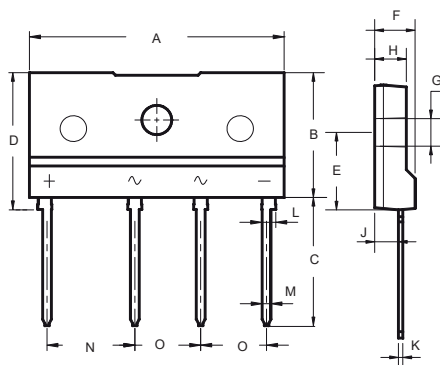
D3K



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.524	.563	13.30	14.30	
B	.252	.291	6.40	7.40	
C	.177	.217	4.50	5.50	
D	.406	.445	10.30	11.30	
E	.041	.057	1.05	1.45	
F	.516	.531	13.10	13.50	
G	.024	.033	0.60	0.85	
H	.146	.154	3.70	3.90	
J	.102	.142	2.60	3.60	
K	.122	.134	3.10	3.40	
L	.079	.087	2.00	2.20	
M	.016	.024	0.40	0.60	

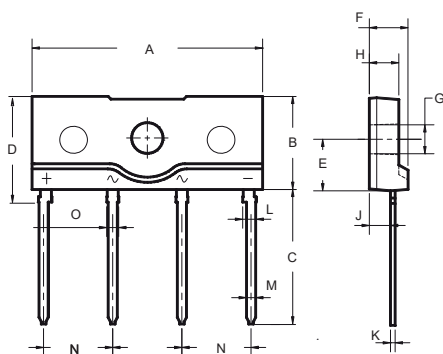
PACKAGE OUTLINES

JA

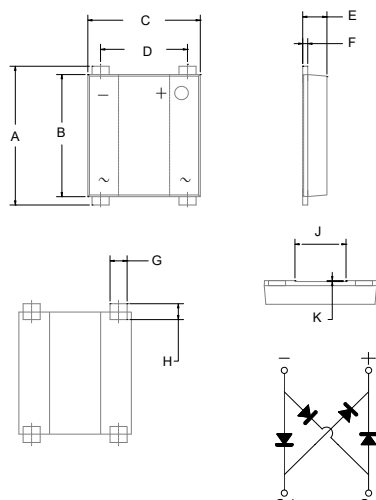


DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.13	1.154	28.70	29.30	
B	.559	.583	14.20	14.80	
C	.575	.598	14.60	15.20	
D	.614	.638	15.60	16.20	
E	.343	.366	8.70	9.30	
F	.169	.193	4.30	4.90	
G	.122	.134	3.10	3.40	
H	.130	.154	3.30	3.90	
J	.098	.114	2.50	2.90	
K	.012	.024	0.40	0.60	
L	.059	.067	1.50	1.70	
M	.035	.043	0.90	1.10	
N	.390	.400	9.80	10.20	
O	.290	.300	7.30	7.70	

JB



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.972	.996	24.70	25.30	
B	.394	.417	10.00	10.60	
C	.575	.598	14.60	15.20	
D	.449	.472	11.40	12.00	
E	.213	.236	5.40	6.00	
F	.154	.177	3.90	4.50	
G	.122	.134	3.10	3.40	
H	.114	.138	2.90	3.90	
J	.079	.102	2.00	2.60	
K	.012	.024	0.40	0.60	
L	.053	.061	1.35	1.55	
M	.035	.043	0.90	1.10	
N	.287	.303	7.30	7.70	
O	.047	.055	1.20	1.40	

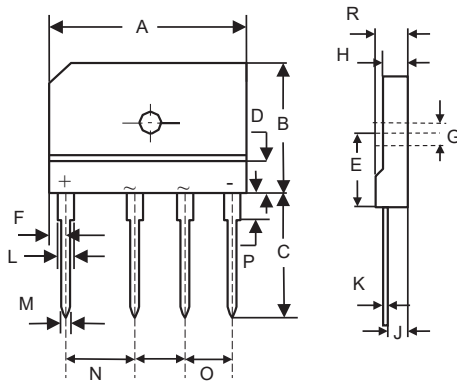


TBS

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.311	.339	7.90	8.60	
B	.283	.291	7.20	7.40	
C	.256	.264	6.50	6.70	
D	.197	.205	5.00	5.20	
E	.051	.059	1.30	1.50	
F	.011	.016	0.27	0.40	
G	.037	.045	0.95	1.15	
H	.028	.041	0.70	1.05	
J	.114	.122	2.90	3.10	
K	.0015	.003	0.04	0.08	

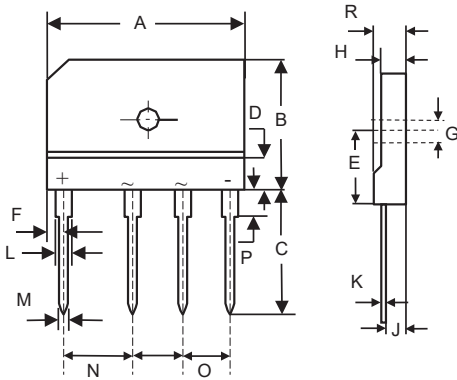
PACKAGE OUTLINES

GBJ



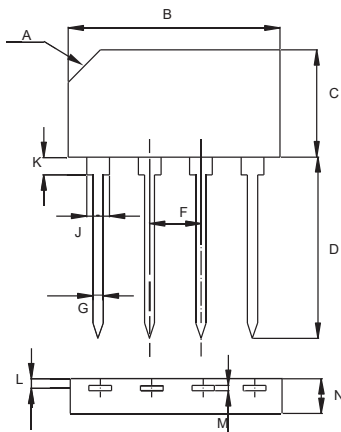
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.170	1.190	29.70	30.30	
B	.780	.800	19.70	20.30	
C	.670	.710	17.00	18.00	
D	.185	.193	4.70	4.90	
E	.430	.440	10.80	11.20	
F	.090	.110	2.30	2.70	
G	.120	.130	3.10	3.40	
H	.130	.150	3.40	3.80	
R	.170	.190	4.40	4.80	
J	.100	.110	2.50	2.90	
K	.020	.030	0.60	0.80	
L	.080	.090	2.00	2.40	
M	.035	.043	0.90	1.10	
N	.390	.400	9.80	10.20	
O	.290	.300	7.30	7.70	
P	.150	.170	3.80	4.20	

GBJL



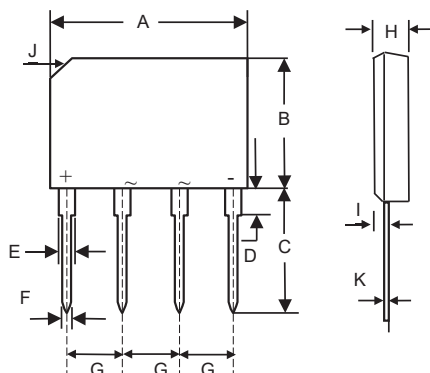
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.067	1.091	27.10	27.70	
B	.551	.575	14.00	14.60	
C	.570	.610	4.50	15.50	
D	.071 typ		1.80 typ		
E	.339	.354	8.60	9.00	
F	.071	.087	1.80	2.20	
G	.120	.134	3.00	3.40	
H	.110	.126	2.80	3.20	
J	.098	.114	2.50	2.90	
K	.012	.028	0.30	0.70	
L	.098	.114	2.50	2.90	
M	.035	.043	0.90	1.10	
N	.390	.400	9.80	10.20	
O	.290	.300	7.30	7.70	
P	.079	.094	2.00	2.40	
R	.150	.157	3.60	4.00	

GBL



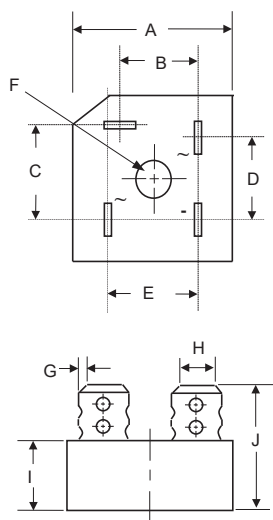
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.125 X 0.125		3.17 X 3.17		X 45°
B	.768	.823	19.5	20.9	
C	.411	.453	10.4	11.5	
D	.682	.740	17.3	18.8	
F	.189	.209	4.80	5.30	
G	.035	.050	0.90	1.27	
J	.063	.098	1.60	2.50	
K	.060	.106	1.05	2.70	
L	.030	.031	0.76	1.20	
M	.016	.026	0.40	0.66	
N	.128	.146	3.25	3.70	

PACKAGE OUTLINES



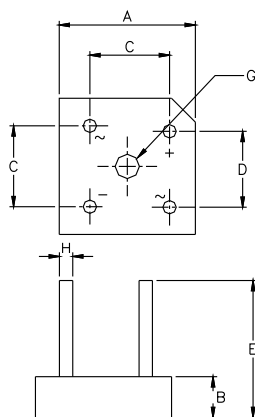
GBP

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.561	.580	14.25	14.75	
B	.410	.417	10.20	10.60	
C	.561	.581	14.25	14.73	
D	.090		2.29		
E	.046	.056	1.17	1.42	
F	.030	.034	0.76	0.86	
G	.140	.160	3.56	4.06	
H	.138	.161	3.50	4.10	
I	.045	.060	1.14	1.52	
J	.110 x45°		2.80x45°		
K	.012	.025	.300	.641	



GBPC

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.114	1.134	28.30	28.80	
B	.634	.673	16.10	17.10	
C	.634	.673	16.10	17.10	
D	.543	.583	13.80	14.80	
E	.693	.732	17.60	18.60	
F	0.197 Nominal		5.00 Nominal		Ø
G	.030	.034	0.76	0.86	
H	.244	.256	6.20	6.50	
I	.291	.315	7.40	8.00	
J	.740	.839	18.80	21.30	

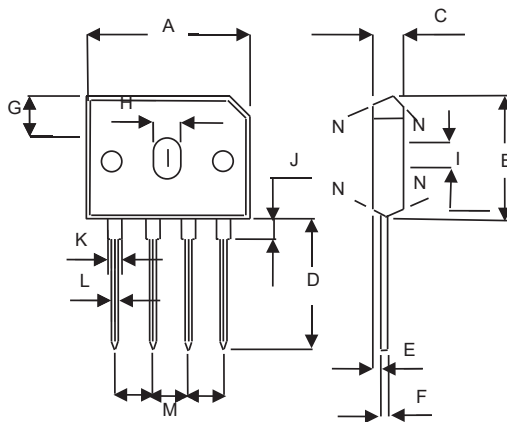


GBPC-W

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.122	1.142	28.50	29.00	
B	.432	.442	10.97	11.23	
C	.673	.752	17.10	19.10	
D	.410	.490	10.40	12.40	
E	1.20	---	30.50	---	
H	.038	.042	0.97	1.07	
G	.200	.220	5.08	5.59	

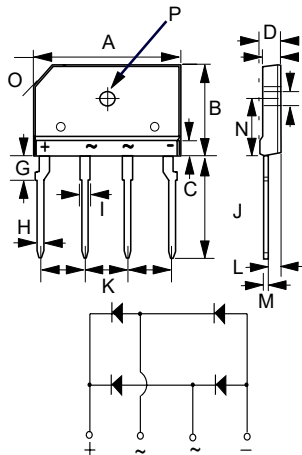
PACKAGE OUTLINES

GBU



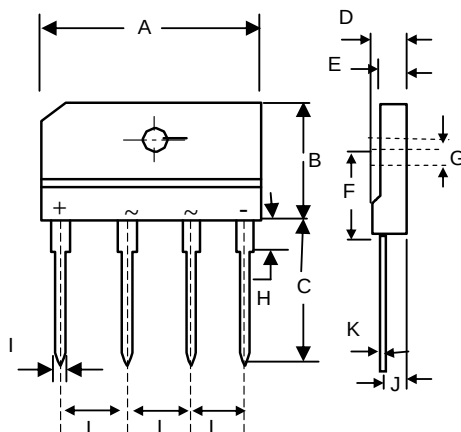
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.860	.880	21.80	22.30	
B	.720	.740	18.30	18.80	
C	.130	.142	3.30	3.60	
D	.690	.717	17.50	18.20	
E	.030	.039	0.76	1.00	
F	.018	.024	0.46	0.60	
G	.290	.310	7.40	7.90	
H	.140	.160	3.50	4.10	
I	.065	.085	1.65	2.16	
J	.060	.096	1.52	2.45	
K	.077	.098	1.95	2.50	
L	.040	.050	1.02	1.27	
M	.190	.210	4.83	5.33	
N	7.0° TYPICAL				

KBJ



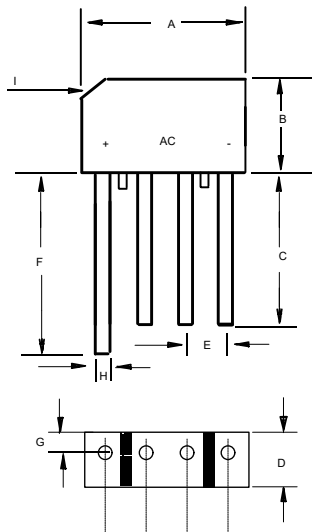
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.976	.992	24.80	25.20	
B	.579	.602	14.70	15.30	
C	.154	.161	3.90	4.10	
D	.173	.189	4.40	4.80	
E	.134	.150	3.40	3.80	
F	.122	.134	3.10	3.40	Ø
G	.130	.146	3.30	3.70	
H	.035	.043	0.90	1.10	
I	.059	.075	1.50	1.90	
J	.669	.709	17.00	18.00	
K	.287	.303	7.30	7.70	
L	.098	.114	2.50	2.90	
M	.024	.031	0.60	0.80	
N	.366	.413	9.30	10.50	
O	.118X45°		3.0X45°		
P	.122	.134	3.10	3.40	Ø

KBJL



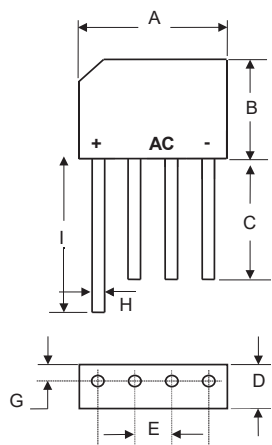
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.972	.996	24.70	25.30	
B	.394	.417	10.00	0.60	
C	.697	.736	17.70	18.70	
D	.142	.157	3.60	4.00	
E	.110	.126	2.80	3.20	
F	.217	.232	5.50	5.90	
G	.122	.134	3.10	3.40	
H	.669 typ		1.70 typ		
I	.035	.043	0.90	1.10	
J	.098	.114	2.50	2.90	
K	.016	.024	0.40	0.60	
L	.287	.303	7.30	7.70	

PACKAGE OUTLINES



KBP

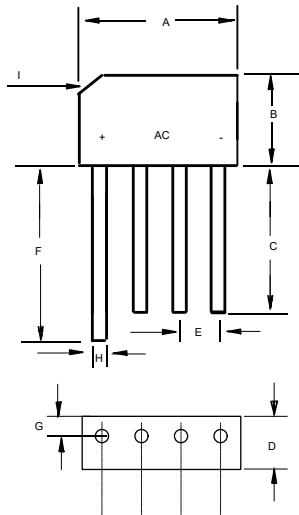
DIMENSION					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.560	.600	14.20	15.20	
B	.420	.460	10.70	11.70	
C	.500	---	12.70	---	
D	.142	.162	3.60	4.10	
E	.140	.160	3.60	4.10	
F	.600	---	15.20	---	
G	.039	.055	1.00	1.40	
H	.028	.034	0.76	0.86	
I	0.125X45		3.2X45		



KBPL

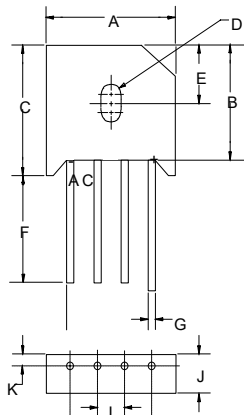
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.559	.600	14.22	15.24	
B	.420	.460	10.60	11.68	
C	.500	---	12.7	---	
D	.146	.153	3.70	3.90	
E	.142	.161	3.60	4.10	
G	.046	.054	1.17	1.37	
H	.028	.034	0.70	0.90	
I	.561	---	14.25	---	

PACKAGE OUTLINES



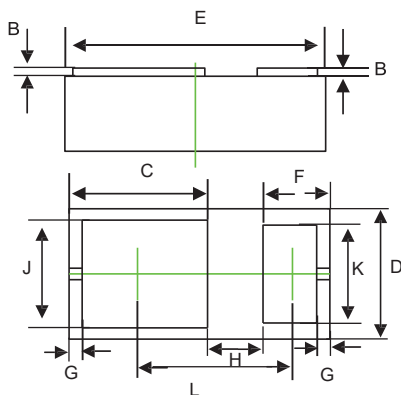
KBPR

DIMENSION					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.560	.600	14.32	15.24	
B	.420	.460	10.70	11.70	
C	.500	---	12.70	---	
D	.132	.144	3.35	3.65	
E	.140	.160	3.60	4.10	
F	.600	---	15.24	---	
G	.035	.047	0.90	1.20	
H	.028	.034	0.76	0.86	
I	0.12X45		3.0X45		



KBU

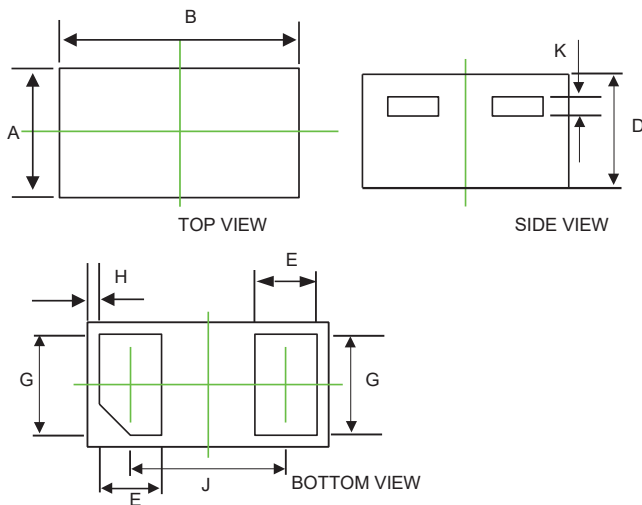
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.895	.935	22.7	23.7	
B	.600	.700	16.8	17.8	
C	.740	.780	18.8	19.8	NOM
D	.15Ø x	.23L	3.8Ø x	5.7L	HOLE
E	---	.300	---	7.5	NOM
F	.100	---	25.4	---	
G	.048	.052	1.2	1.3	
J	.268	.280	6.8	7.1	
K	---	.140	---	5.3	NOM
L	.180	.220	4.6	5.6	3PL



FBP-02L

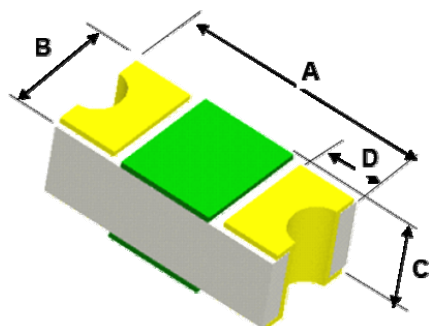
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.018	0.022	0.45	0.55	
B	0.000	0.004	0.01	0.09	
C	0.033 REF.		0.850 REF.		
D	0.030	0.033	0.75	0.85	
E	0.061	0.065	1.55	1.65	
F	0.016 REF.		0.410 REF.		
G	0.003 REF.		0.080 REF.		
H	0.013 REF.		0.340 REF.		
J	0.024	0.030	0.60	0.76	
K	0.020	0.027	0.52	0.68	
L	0.035	0.039	0.90	1.00	

PACKAGE OUTLINES



0201

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.011	0.015	0.27	0.37	
B	0.022	0.026	0.57	0.67	
D	0.011	0.013	0.275	0.34	
E	0.005	0.008	0.125	0.195	
G	0.009	0.012	0.225	0.295	
H	0.001 REF.		0.030 REF.		
J	0.014	0.017	0.365	0.435	
K	0.002 REF.		0.050 REF.		



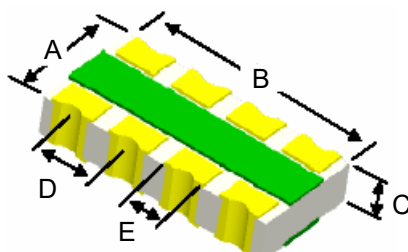
0402

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.035	.047	0.90	1.20	
B	.017	.026	0.45	0.65	
C	.010	.018	0.25	0.45	
D	.006	.014	0.15	0.35	
E	.024	.028	0.60	0.70	
F	.017	.022	0.45	0.55	
G	.033	.037	0.85	0.95	

0603

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.057	.069	1.45	1.75	
B	.027	.038	0.70	0.95	
C	.011	.019	0.27	0.47	
D	.008	.020	0.20	0.50	
E	.035	.040	0.90	1.00	
F	.023	.028	0.60	0.70	
G	.051	.056	1.30	1.40	

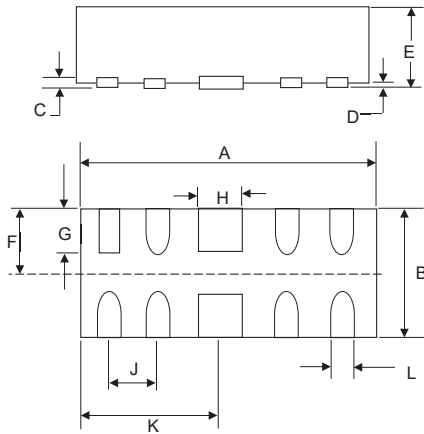
1206



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.138	.147	3.52	3.72	
C	.013	.017	0.33	0.43	
D	.033	.041	0.83	1.03	
E	.020	.025	0.52	0.62	
F	.021	.026	0.55	0.65	
G	.010	.014	0.25	0.35	
H	.082	.091	2.10	2.30	
I	.126	.134	3.20	3.40	
J	.025	.030	0.65	0.75	
K	.027	.032	0.70	0.80	

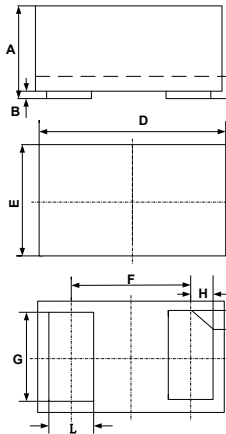
PACKAGE OUTLINES

DFN-10



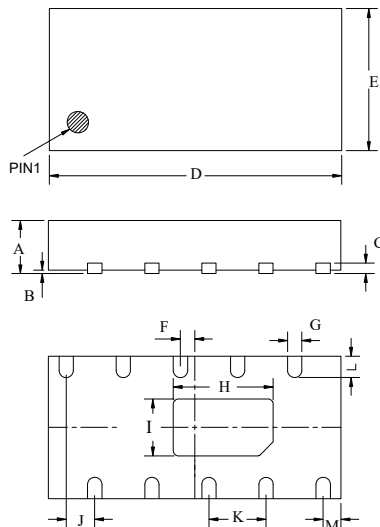
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.0094	0.102	2.40	2.60	
B	.035	.043	0.90	1.10	
C	.005		0.13		
D	.000	.002	0.00	0.05	
E	.020	.026	0.50	0.65	
F	.017	.022	0.45	0.55	
G	.012	.017	0.30	0.425	
H	.014	.018	0.35	0.45	
J	.020BSC		0.5BSC		
K	.047	.056	1.20	1.30	
L	.006	.010	0.15	0.25	

DFN1006-2



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.018	0.022	0.45	0.55	
B	0.000	0.002	0.00	0.05	
C	0.005	0.007	0.12	0.18	
D	0.037	0.041	0.95	1.05	
E	0.022	0.026	0.55	0.65	
F	0.026 REF.		0.650 REF.		
G	0.018	0.022	0.45	0.55	
H	0.003	0.007	0.07	0.17	
L	0.008	0.012	0.20	0.30	

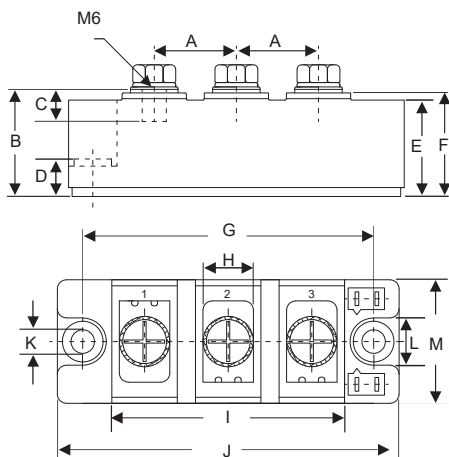
DFN4120-10



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.020	0.024	0.50	0.60	
B	0.000	0.002	0.00	0.05	
C	0.006 REF.		0.150 REF.		
D	0.162	0.166	4.05	4.15	
E	0.075	0.082	1.95	2.05	
F	0.008 REF.		0.200 REF.		
G	0.006	0.010	0.15	0.25	
H	0.050	0.060	1.25	1.50	
I	0.026	0.036	0.65	0.90	
J	0.016 REF.		0.40 REF.		
K	0.032 REF.		0.80 REF.		
L	0.008	.016	0.20	0.40	
M	0.010 REF.		0.25 REF.		

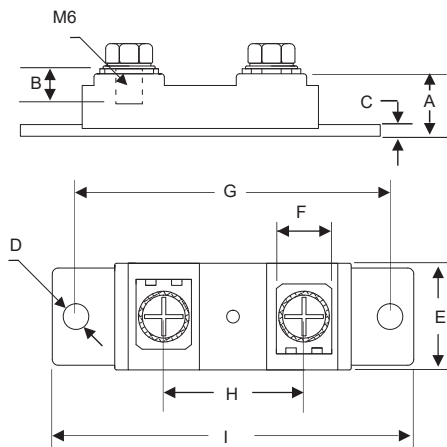
PACKAGE OUTLINES

F2



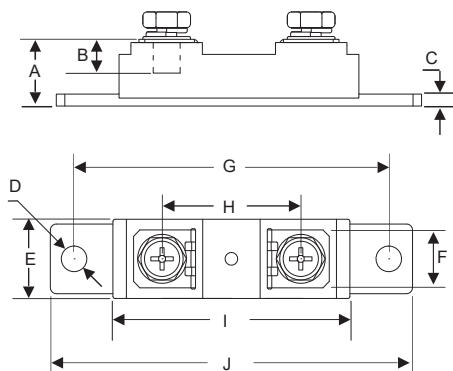
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.894	.917	22.70	23.30	
B	1.169	1.193	29.70	30.30	
C	.343	.366	8.70	9.30	
D	.323	.343	8.20	8.70	
E	1.051	1.075	26.70	27.30	
F	1.130	1.154	28.70	29.30	
G	.120	.130	79.70	80.30	
H	.500	.524	12.70	13.30	
I	2.501	2.531	63.70	64.30	
J	3.689	3.713	93.70	94.30	
K	.256		6.50		Ø
L	.500	.524	12.70	13.30	
M	1.327	1.350	33.70	34.30	

F3



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.618	.642	15.70	16.30	
B	.343	.366	8.70	9.30	
C	.118	.130	3.00	3.30	
D	.256		6.50		Ø
E	1.051	1.075	26.70	27.30	
F	.539	.563	13.70	14.30	
G	3.138	3.161	79.70	80.30	
H	1.366	1.390	34.70	35.30	
I	3.610	3.634	91.70	92.30	

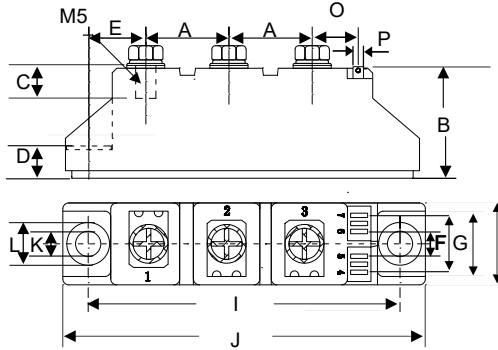
F4



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.657	.681	16.70	17.30	
B	.343	.366	8.70	9.30	
C	.118	.130	3.00	3.30	
D	.256		6.50		Ø
E	.776	.799	19.70	20.30	
F	.539	.563	13.70	14.30	
G	3.138	3.161	79.70	80.30	
H	1.366	1.390	34.70	35.30	
I	2.350	2.374	59.70	60.30	
J	3.610	3.634	91.70	92.30	

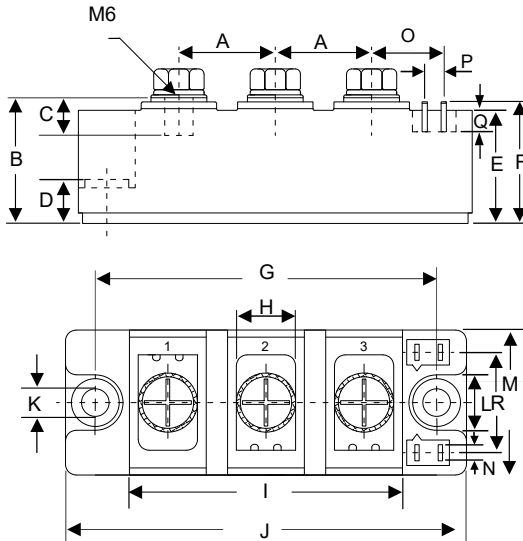
PACKAGE OUTLINES

T1



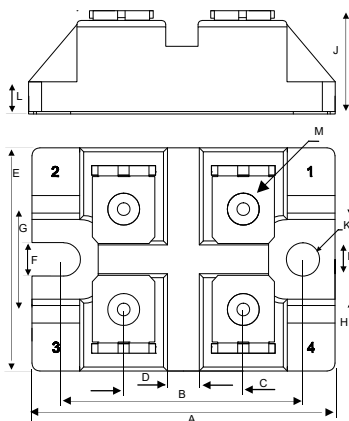
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.776	.799	19.70	20.30	
B	1.169	1.193	29.70	30.30	
C	.343	.366	8.70	9.30	
D	.323	.346	8.20	8.80	
E	.602	.622	15.30	15.80	
F	.224	.248	5.70	6.30	
G	.539	.563	13.70	14.30	
H	.657	.681	16.70	17.30	
I	3.138	3.161	79.70	80.30	
J	3.650	3.673	92.70	93.30	
K	.256		6.50		Ø
L	.421	.445	10.70	11.30	
M	.815	.839	20.70	21.30	
O	.579	.602	14.70	15.30	
P	0.11X0.032		2.8X0.8		

T2



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.894	.917	22.70	23.30	
B	1.169	1.193	29.70	30.30	
C	.343	.366	8.70	9.30	
D	.323	.343	8.20	8.70	
E	1.051	1.075	26.70	27.30	
F	1.130	1.154	28.70	29.30	
G	.120	.130	79.70	80.30	
H	.500	.524	12.70	13.30	
I	2.501	2.531	63.70	64.30	
J	3.689	3.713	93.70	94.30	
K	.256		6.50		Ø
L	.500	.524	12.70	13.30	
M	1.327	1.350	33.70	34.30	
N	0.032X0.11		0.8X2.8		
O	.677	.700	17.20	17.80	
P	.185	.209	4.70	5.30	
Q	.185	.209	4.70	5.30	
R	.902	.925	22.90	23.50	

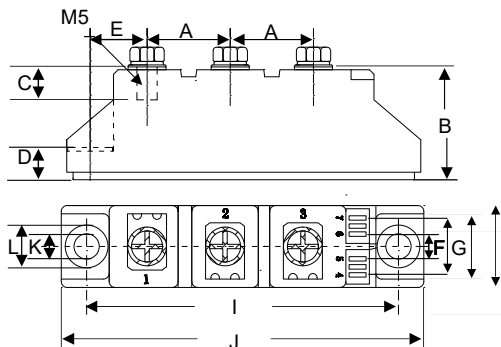
FJ



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.484	1.508	37.70	38.30	
B	1.169	1.193	29.70	30.30	
C	.579	.602	14.70	15.30	
D	.146	.169	3.70	4.30	
E	1.091	1.114	27.70	28.30	
F	.154	.177	3.90	4.50	
G	.484	.508	12.30	12.90	
H	.382	.406	9.70	10.30	
I	.130	.154	3.30	3.90	
J	.492	.516	12.50	13.10	
K	.165		4.20		Ø
L	.146	.169	3.70	4.30	
M	.157		4.00		Ø

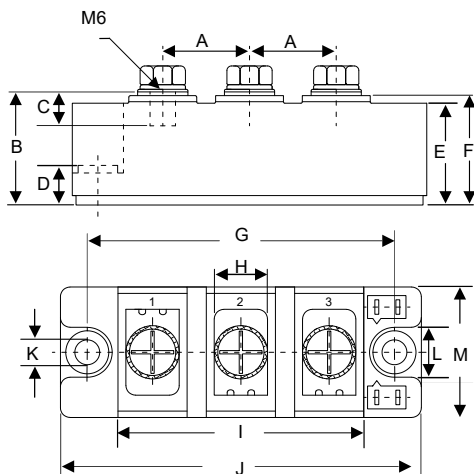
PACKAGE OUTLINES

D1



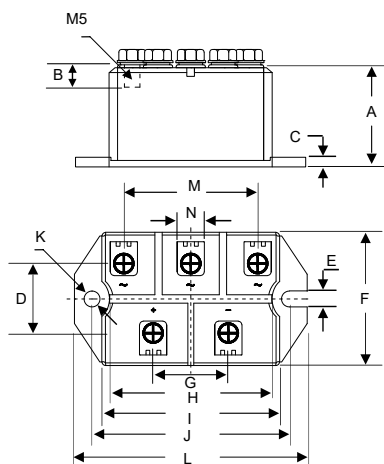
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.776	.799	19.70	20.30	
B	1.169	1.193	29.70	30.30	
C	.343	.366	8.70	9.30	
D	.323	.346	8.20	8.80	
E	.602	.622	15.30	15.80	
F	.224	.248	5.70	6.30	
G	.539	.563	13.70	14.30	
H	.657	.681	16.70	17.30	
I	3.138	3.161	79.70	80.30	
J	3.650	3.673	92.70	93.30	
K	.256		6.50		Ø
L	.421	.445	10.70	11.30	
M	.815	.839	20.70	21.30	

D2



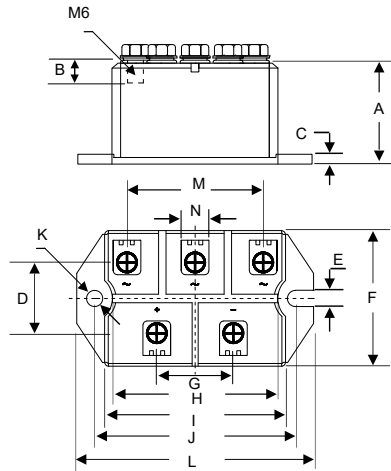
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.894	.917	22.70	23.30	
B	1.169	1.193	29.70	30.30	
C	.343	.366	8.70	9.30	
D	.323	.343	8.20	8.70	
E	1.051	1.075	26.70	27.30	
F	1.130	1.154	28.70	29.30	
G	.120	.130	79.70	80.30	
H	.500	.524	12.70	13.30	
I	2.501	2.531	63.70	64.30	
J	3.689	3.713	93.70	94.30	
K	.256		6.50		Ø
L	.500	.524	12.70	13.30	
M	1.327	1.350	33.70	34.30	

M2



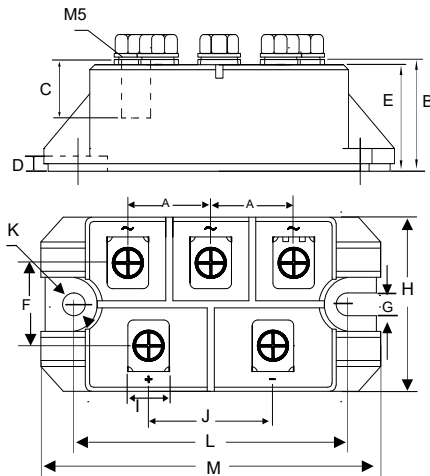
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.169	1.193	29.70	30.30	
B	.264	.287	6.70	7.30	
C	.118	.130	3.00	3.30	
D	.839	.862	21.30	21.90	
E	.205	.228	5.20	5.80	
F	1.641	1.655	41.70	42.30	
G	.894	.917	22.70	23.30	
H	1.878	1.902	47.70	48.30	
I	2.114	2.138	53.70	54.30	
J	2.350	2.374	59.70	60.30	
K	.217		5.50		Ø
L	2.823	2.846	71.70	72.30	
M	1.563	1.587	39.70	40.30	
N	.815	.839	8.70	9.30	

PACKAGE OUTLINES



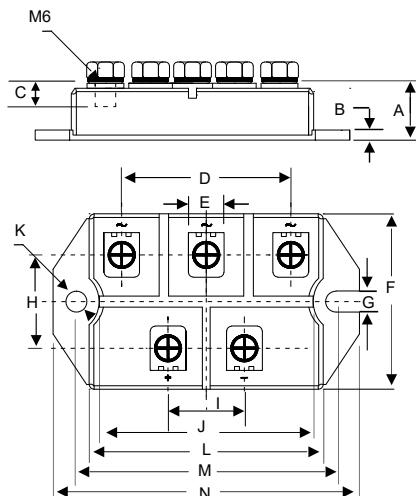
M3

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.169	1.193	29.70	30.30	
B	.264	.287	6.70	7.30	
C	.118	.130	3.00	3.30	
D	1.05	1.07	26.70	27.30	
E	.244	.268	6.20	6.80	
F	2.114	2.138	53.70	54.30	
G	.972	.996	24.70	25.30	
H	2.587	2.610	65.70	66.30	
I	2.823	2.846	71.70	72.30	
J	3.138	3.161	79.70	80.30	
K	.256		6.50		Ø
L	3.689	3.713	93.70	94.30	
M	2.035	2.059	51.70	52.30	
N	.460	.484	11.70	12.30	



M4

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.776	.799	19.70	20.30	
B	.854	.878	21.70	22.30	
C	.440	.465	11.20	11.80	
D	.106	.130	2.70	3.30	
E	.815	.839	20.70	21.30	
F	.776	.799	19.70	20.30	
G	.205	.228	5.20	5.80	
H	1.64	1.67	41.70	42.30	
I	.382	.406	9.70	10.30	
J	1.169	1.193	29.70	30.30	
K	.217		5.50		Ø
L	2.59	2.61	65.70	66.30	
M	3.22	3.24	81.70	82.30	

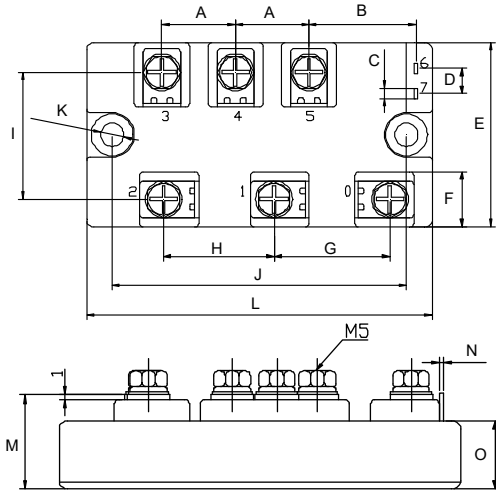


M5

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.657	.681	16.70	17.30	
B	.106	.130	2.70	3.30	
C	.264	.287	6.70	7.30	
D	2.04	2.06	51.70	52.30	
E	.461	.484	11.70	12.30	
F	2.11	2.14	53.70	54.30	
G	.244	.268	6.20	6.80	
H	1.05	1.07	26.70	27.30	
I	.972	.996	24.70	25.30	
J	2.59	2.61	65.70	66.30	
K	.256		6.50		Ø
L	2.82	2.85	71.70	72.30	
M	3.14	3.16	79.70	80.30	
N	3.69	3.71	93.70	94.30	

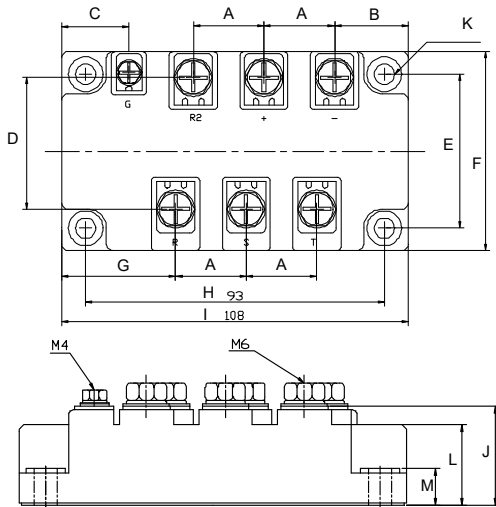
PACKAGE OUTLINES

L1



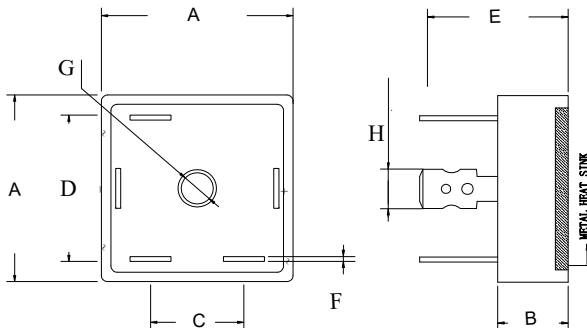
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.776	.799	19.70	20.30	
B	1.169	1.193	28.70	29.30	
C	.098	.122	2.50	3.10	
D	.264	.287	6.70	7.30	
E	1.96	1.98	49.70	50.30	
F	.578	.602	14.70	15.30	
G	1.248	1.272	31.70	32.30	
H	1.169	1.193	29.70	30.30	
I	1.327	1.350	33.70	34.30	
J	3.138	3.161	79.70	80.30	
K	.256		6.50		Ø
L	3.689	3.713	93.70	94.30	
M	.854	.878	21.70	22.30	
N	.020	.043	0.50	1.10	
O	.610	.634	15.50	16.10	

L2



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.854	.878	21.70	22.30	
B	.894	.917	22.70	23.30	
C	.815	.839	20.70	21.30	
D	1.60	1.63	40.70	41.30	
E	1.88	1.90	47.70	48.30	
F	2.43	2.45	61.70	62.30	
G	1.39	1.41	35.20	35.80	
H	3.65	3.67	92.70	93.30	
I	4.24	4.26	107.70	108.30	
J	1.05	1.08	26.70	27.30	
K	.256		6.50		Ø
L	.846	.870	21.50	22.10	
M	.323	.346	8.20	8.80	

MT-35A



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.110	1.134	28.20	28.80	
B	.354	.394	9.0	10.0	
C	.610	.650	15.5	16.5	
D	.948	.988	24.10	25.10	
E	.944		25.00		
F	.029	.033	0.75	0.85	
G	.193		4.9		
H	.244	.251	6.20	6.40	