

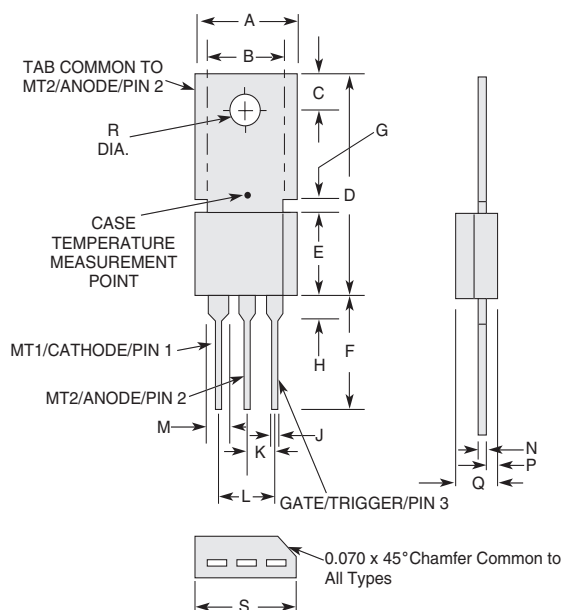
Package Dimensions

This section contains the dimensions for the following packages:

- "F" Package—TO-202AB, Type 1 (Non-isolated)
- "Y" Package—DO-35 or DO-204AH
- "R" Package—TO-220AB THERMOTAB (Non-isolated)
- "L" Package—TO-220AB THERMOTAB (Isolated)
- "P" Package—TO-3 FASTPAK (Isolated)
- "E" Package—TO-92 (Isolated)
- "S" Package—DO-214AA
- "M" Package—TO-218AC (Non-isolated)
- "K" Package—TO-218AC (Isolated)
- "W" Package—TO-218X (Non-isolated)
- "J" Package—TO-218X (Isolated)
- "G" Package—DO-15X Axial Lead
- "C" Package—COMPAK

Note: Due to manufacturing tolerances and methods, small amounts of flash may appear on any molded part. In some instances this flash may break off later in the manufacturing process and expose bare copper. In other cases there may be bare copper showing after cutting or trimming parts. This does not affect the electrical operation of these parts. With proper soldering techniques any bare copper can easily be soldered.

**“F” Package (Non-isolated Mounting Tab — Common to MT2/Anode/Pin2)
TO-202AB, Type 1**

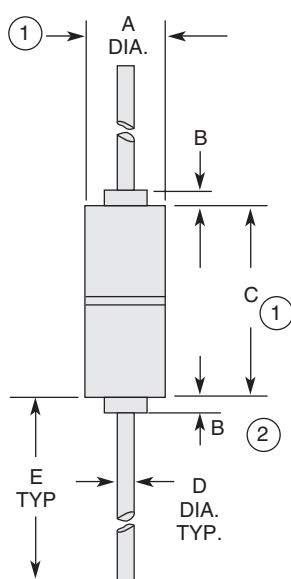


Dimension	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.365	0.385	9.27	9.78
B	0.243	0.253	6.17	6.43
C	0.110	0.120	2.79	3.05
D	0.780	0.810	19.81	20.57
E	0.290	0.310	7.37	7.87
F	0.400	0.430	10.16	10.92
G	0.052	0.062	1.32	1.58
H	0.055	0.065	1.40	1.65
J	0.023	0.029	0.58	0.74
K	0.095	0.105	2.41	2.67
L	0.195	0.205	4.95	5.21
M	0.049	0.059	1.24	1.50
N	0.017	0.023	0.43	0.58
P	0.055	0.065	1.40	1.65
Q	0.175	0.185	4.45	4.70
R	0.124	0.130	3.15	3.30
S	0.390	0.405	9.91	10.29

NOTES:

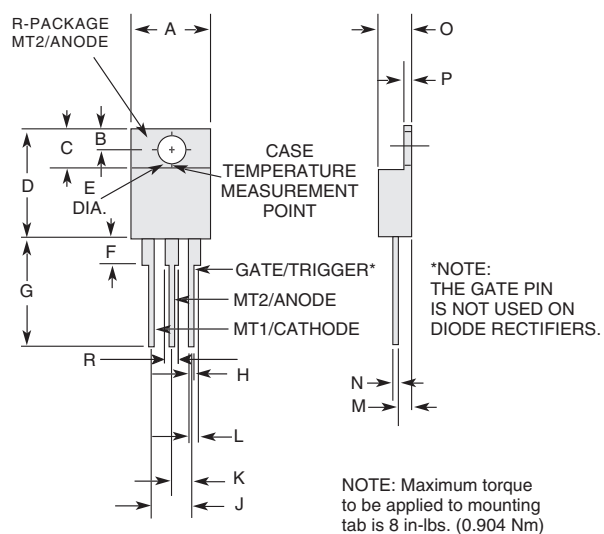
- (1) Maximum torque to be applied to mounting tab is 8 in.-lbs. (0.904 Nm)
 (2) Pin 2 and mounting tab are electrically connected. Do not use either for Sidac operation.

**“Y” Package
DO-35 or DO-204AH**

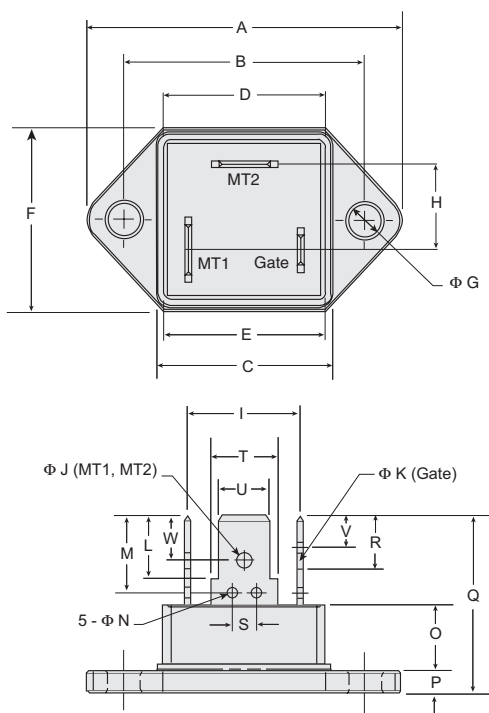


Dimension	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.060	0.090	1.530	2.280
B		0.015		0.381
C	0.135	0.165	3.430	4.190
D	0.018	0.022	0.458	0.558
E	1.000		25.400	

- (1) Package contour optional within dimensions A and C. Slugs, if any, shall be included within this cylinder but shall not be subject to the minimum limit of Dimension A.
 (2) Lead diameter is not controlled in this zone to allow for flash, lead finish build-up, and minor irregularities other than slugs.

“R” Package (Non-isolated Mounting Tab — Center Lead and Tab Common)**“L” Package (Isolated Mounting Tab)****TO-220AB**

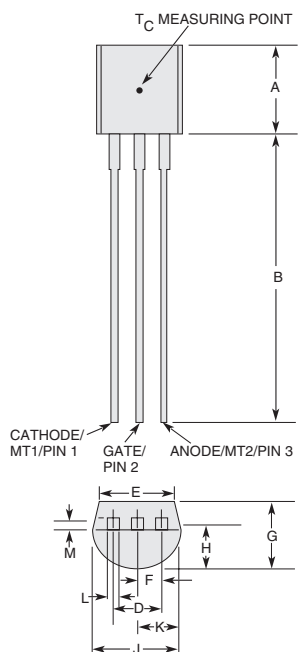
Dimension	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.380	0.420	9.65	10.67
B	0.105	0.115	2.66	2.92
C	0.230	0.250	5.85	6.35
D	0.590	0.620	14.98	15.75
E	0.142	0.147	3.61	3.73
F	0.110	0.130	2.80	3.30
G	0.540	0.575	13.71	14.60
H	0.025	0.035	0.63	0.89
J	0.195	0.205	4.95	5.21
K	0.095	0.105	2.41	2.67
L	0.060	0.075	1.52	1.91
M	0.070	0.085	1.78	2.16
N	0.018	0.024	0.45	0.61
O	0.178	0.188	4.52	4.78
P	0.045	0.060	1.14	1.53
R	0.038	0.048	0.97	1.22

“P” Package (Isolated Mounting Base)**TO-3 Fastpak**

Dimension	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	38.90	39.20	1.531	1.543
B	29.90	30.10	1.177	1.185
C	21.40	21.60	0.843	0.850
D	19.80	20.20	0.780	0.795
E	19.90	20.10	0.783	0.791
F	22.20	23.00	0.874	0.906
G	4.10	4.30	0.161	0.169
H	9.80	11.80	0.386	0.465
I	12.90	14.90	0.508	0.587
J	2.00	2.20	0.079	0.087
K	1.20	1.40	0.047	0.055
L	7.80	8.10	0.307	0.319
M	9.45	10.05	0.372	0.396
N	1.10	1.50	0.043	0.059
O	8.00	8.40	0.315	0.331
P	2.50	2.70	0.098	0.106
Q	21.50	22.50	0.846	0.886
R	6.20	6.50	0.244	0.256
S	2.70	3.30	0.106	0.130
T (MT1)	8.15	8.35	0.321	0.329
T (MT2)	8.15	8.35	0.321	0.329
T (Gate)	5.60	5.80	0.220	0.228
U (MT1)	6.25	6.45	0.246	0.254
U (MT2)	6.25	6.45	0.246	0.254
U (Gate)	4.65	4.85	0.183	0.191
V	3.05	3.30	0.120	0.130
W	4.45	4.70	0.175	0.185

Note: Maximum torque to be applied to mounting tab is 8 in-lbs. (0.904 Nm).

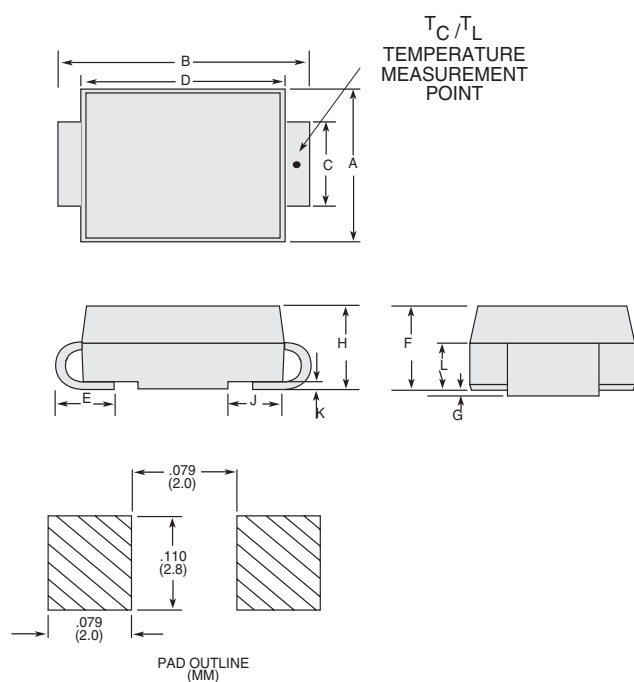
“E” Package TO-92



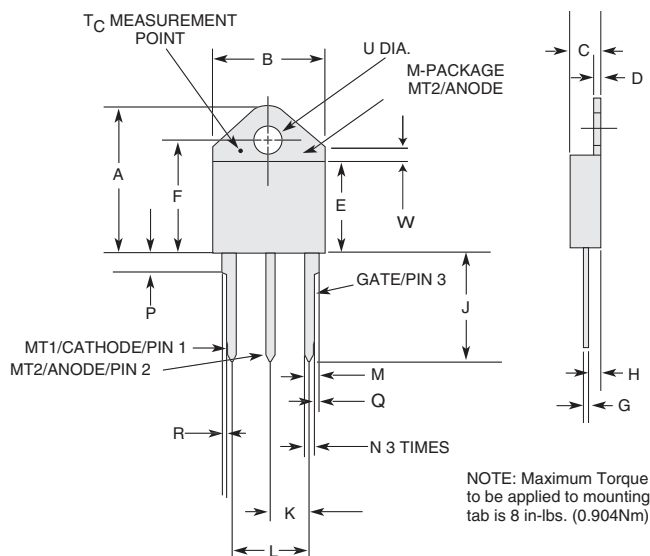
Dimension	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.176	0.196	4.47	4.98
B	0.500		12.70	
D	0.095	0.105	2.41	2.67
E	0.150		3.81	
F	0.046	0.054	1.16	1.37
G	0.135	0.145	3.43	3.68
H	0.088	0.096	2.23	2.44
J	0.176	0.186	4.47	4.73
K	0.088	0.096	2.23	2.44
L	0.013	0.019	0.33	0.48
M	0.013	0.017	0.33	0.43

All leads insulated from case. Case is electrically nonconductive.

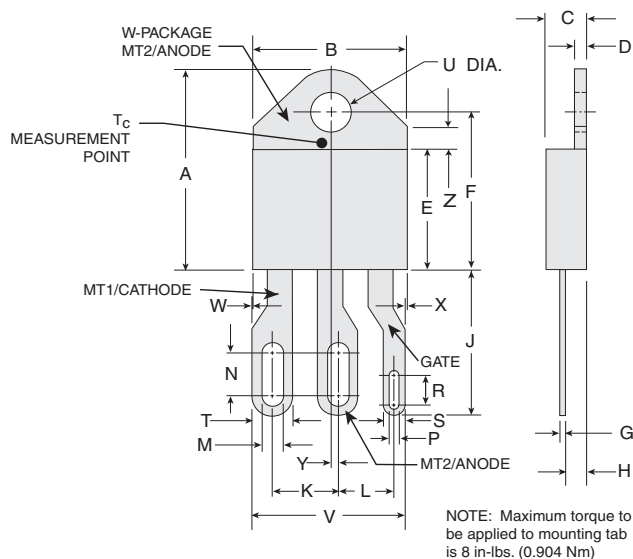
“S” Package DO-214AA



Dimension	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.140	0.155	3.56	3.94
B	0.205	0.220	5.21	5.59
C	0.077	0.083	1.96	2.11
D	0.166	0.180	4.22	4.57
E	0.036	0.056	0.91	1.42
F	0.073	0.083	1.85	2.11
G	0.004	0.008	0.10	0.20
H	0.082	0.086	2.08	2.18
J	0.043	0.053	1.09	1.35
K	0.008	0.012	0.20	0.30
L	0.039	0.049	0.99	1.24

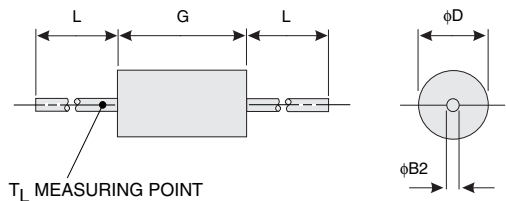
“M” Package (Non-Isolated Mounting Tab — Center Lead and Tab Common)**“K” Package (Isolated Mounting Tab)****TO-218AC**

Dimension	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.810	0.835	20.57	21.21
B	0.610	0.630	15.49	16.00
C	0.178	0.188	4.52	4.78
D	0.055	0.070	1.40	1.78
E	0.487	0.497	12.37	12.62
F	0.635	0.655	16.13	16.64
G	0.022	0.029	0.56	0.74
H	0.075	0.095	1.91	2.41
J	0.575	0.625	14.61	15.88
K	0.211	0.219	5.36	5.56
L	0.422	0.437	10.72	11.10
M	0.058	0.068	1.47	1.73
N	0.045	0.055	1.14	1.40
P	0.095	0.115	2.41	2.92
Q	0.008	0.016	0.20	0.41
R	0.008	0.016	0.20	0.41
U	0.159	0.163	4.04	4.14
W	0.085	0.095	2.17	2.42

“W” Package (Non-Isolated Mounting Tab — Center Lead and Tab Common)**“J” Package (Isolated Mounting Tab)****TO-218X**

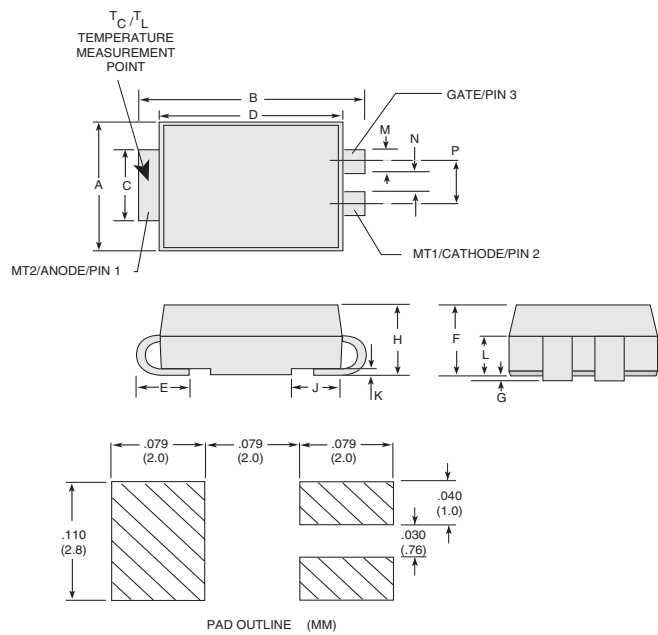
DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.810	0.835	20.57	21.21
B	0.610	0.630	15.49	16.00
C	0.178	0.188	4.52	4.78
D	0.055	0.070	1.40	1.78
E	0.487	0.497	12.37	12.62
F	0.635	0.655	16.13	16.64
G	0.022	0.029	0.56	0.74
H	0.075	0.095	1.91	2.41
J	0.575	0.625	14.61	15.88
K	0.256	0.264	6.50	6.71
L	0.220	0.228	5.58	5.79
M	0.080	0.088	2.03	2.24
N	0.169	0.177	4.29	4.49
P	0.034	0.042	0.86	1.07
R	0.113	0.121	2.87	3.07
S	0.086	0.096	2.18	2.44
T	0.156	0.166	3.96	4.22
U	0.159	0.163	4.04	4.14
V	0.603	0.618	15.31	15.70
W	0.000	0.005	0.00	0.13
X	0.003	0.012	0.07	0.30
Y	0.028	0.032	0.71	0.81
Z	0.085	0.095	2.17	2.42

“G” Package
DO-15X
Axial Lead



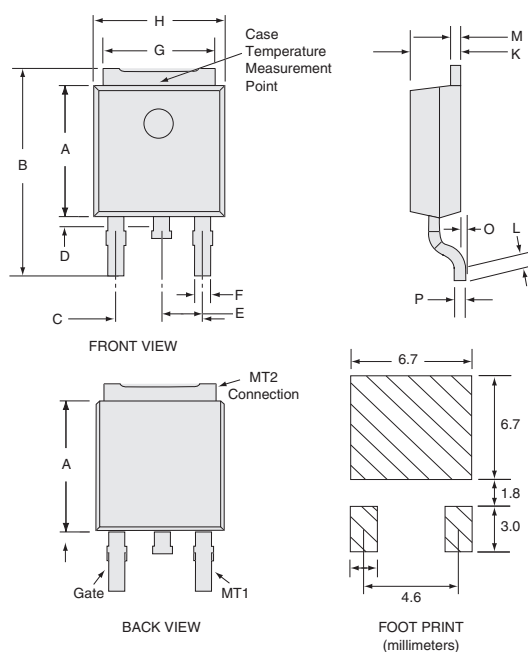
Dimension	Inches		Millimeters	
	MIN	MAX	MIN	MAX
ϕB2	0.027	0.035	0.686	0.889
ϕD	0.104	0.150	2.640	3.810
G	0.230	0.300	5.840	7.620
L	1.000		25.400	

“C” Package
Compak



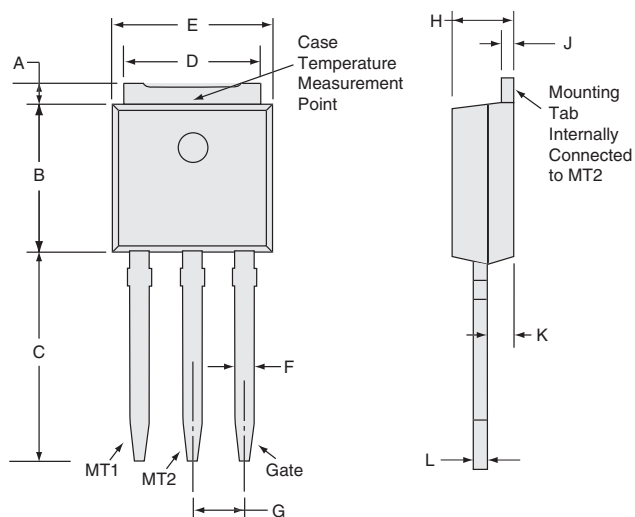
Dimension	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.140	0.155	3.56	3.94
B	0.205	0.220	5.21	5.59
C	0.077	0.083	1.96	2.11
D	0.166	0.180	4.22	4.57
E	0.036	0.056	0.91	1.42
F	0.073	0.083	1.85	2.11
G	0.004	0.008	0.10	0.20
H	0.082	0.086	2.08	2.18
J	0.043	0.053	1.09	1.35
K	0.008	0.012	0.20	0.30
L	0.039	0.049	0.99	1.24
M	0.022	0.028	0.56	0.71
N	0.027	0.033	0.69	0.84
P	0.052	0.058	1.32	1.47

**“D” Package
TO-252AA
D-Pak Surface Mount**



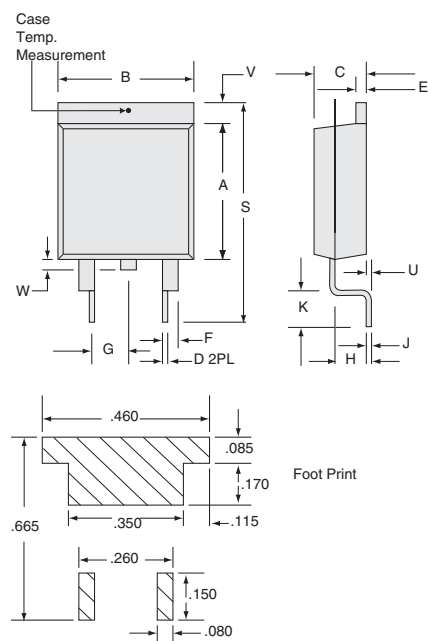
Dimension	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.236	0.244	6.00	6.20
B	0.379	0.409	9.63	10.39
C	0.176	0.184	4.47	4.67
D	0.035	0.050	0.89	0.27
E	0.087	0.093	2.21	2.36
F	0.027	0.033	0.69	0.84
G	0.205	0.213	5.21	5.41
H	0.251	0.261	6.38	6.63
J	0.040	0.050	1.02	1.27
K	0.086	0.094	2.18	2.39
L	0.026	0.036	0.66	0.91
M	0.018	0.023	0.46	0.58
N	0.170	0.180	4.32	4.57
O	0.002	0.010	0.05	0.25
P	0.018	0.023	0.46	0.58

**“V” Package
TO-251AA
V-Pak Through Hole**



Dimension	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.040	0.050	1.02	1.27
B	0.236	0.244	6.00	6.20
C	0.350	0.375	8.89	9.53
D	0.205	0.213	5.21	5.41
E	0.251	0.261	6.38	6.63
F	0.027	0.033	0.69	0.84
G	0.087	0.093	2.21	2.36
H	0.086	0.094	2.18	2.39
J	0.018	0.023	0.46	0.58
K	0.036	0.042	0.91	1.07
L	0.018	0.023	0.46	0.58

“N” Package
TO-263
D²Pak Surface Mount



Dimension	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.360	0.370	9.14	9.40
B	0.380	0.420	9.65	10.67
C	0.178	0.188	4.52	4.78
D	0.025	0.035	0.63	0.89
E	0.048	0.055	1.22	1.40
F	0.060	0.075	1.52	1.91
G	0.095	0.105	2.41	2.67
H	0.083	0.093	2.11	2.36
J	0.018	0.024	0.46	0.61
K	0.090	0.110	2.29	2.79
S	0.590	0.625	14.99	15.87
V	0.035	0.045	0.89	1.14
U	0.002	0.010	0.05	0.25
W	0.040	0.070	1.02	1.78