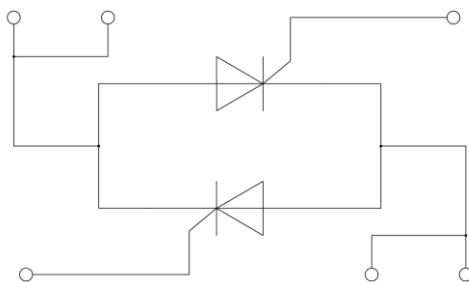
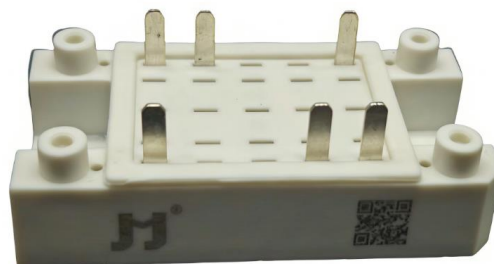




- A package consists of two inverse parallel SCR chips
- Welding by vacuum welding technology, which provide high reliability
- Insulated by silicone gel, provide a insulation voltage of 3000V~

V_{RRM}	1600	V
$I_{T(RMS)}(@ T_C = 85^{\circ}C)$	180	A
$I_{TSM}(@ t_p = 10ms)$	2500	A
$V_T(Max)$	1.80	V

- Soft start
- Solid state relay
- AC/DC switch
- Temperature control



(@ $T_C = 25^{\circ}C$ unless otherwise specified)

Repetitive peak off-state voltage	$T_{vj} = 25^{\circ}C$	V_{DRM}	1600	V
Repetitive peak reverse voltage	$T_{vj} = 25^{\circ}C$	V_{RRM}	1600	V
Non-repetitive peak off-state voltage	$T_{vj} = 25^{\circ}C$	V_{DSM}	1700	V
Non-repetitive peak reverse voltage	$T_{vj} = 25^{\circ}C$	V_{RSM}	1700	V
RMS on-state current	$T_C = 85^{\circ}C$	$I_{T(RMS)}$	180	A
Forward surge current	1/2 cycle, Sine wave, 50Hz $T_{vj} = 25^{\circ}C$	I_{TSM}	2500	A
I^2t value for fusing		I^2t	31250	A ² s
Critical rate of rise of on-state current	$I_G = 2 \times I_{GT}$	di/dt	150	A/ μ s
RMS isolation voltage	A.C 50Hz(1s/1min)	V_{ISO}	3600/3000	V
Junction temperature range		T_J	-40 ~ +125	$^{\circ}C$
Storage temperature range		T_{stg}	-40 ~ +125	$^{\circ}C$



JMT180KQ16V1C	JMT180KQ16V1C	V1	42.9g/PCS	60 PCS	360 PCS

FIG.1: Forward characteristics(per thyristor).

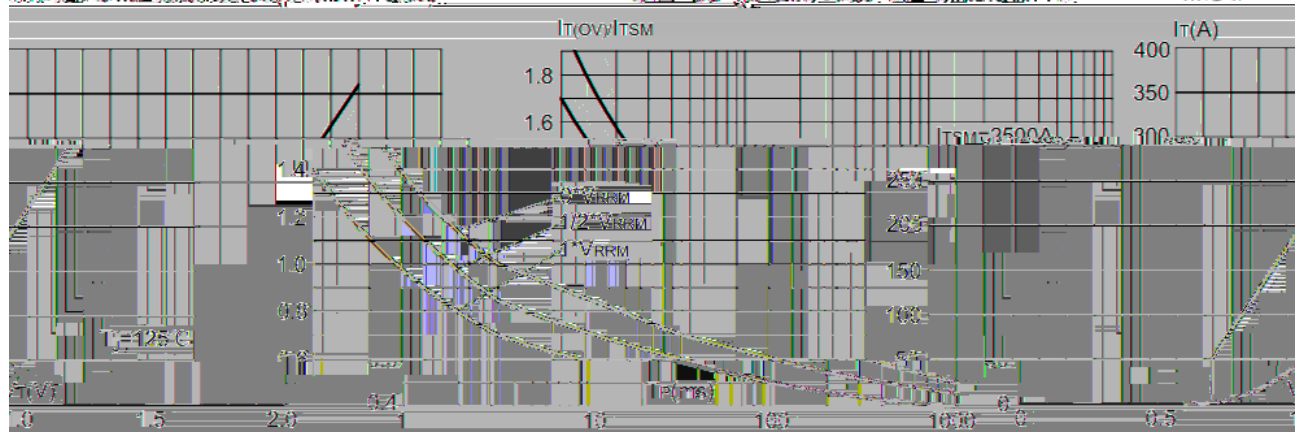


FIG.2: Surge overload current vs. time.

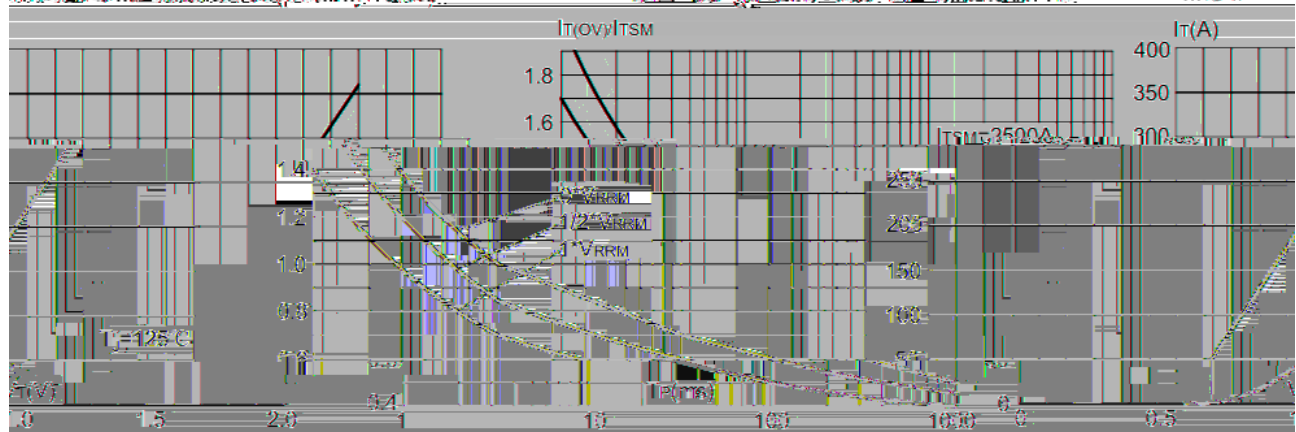


FIG.3: Power dissipation per module vs. R.M.S.

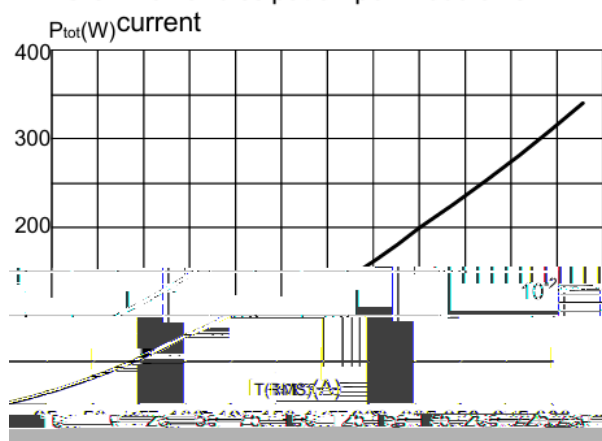
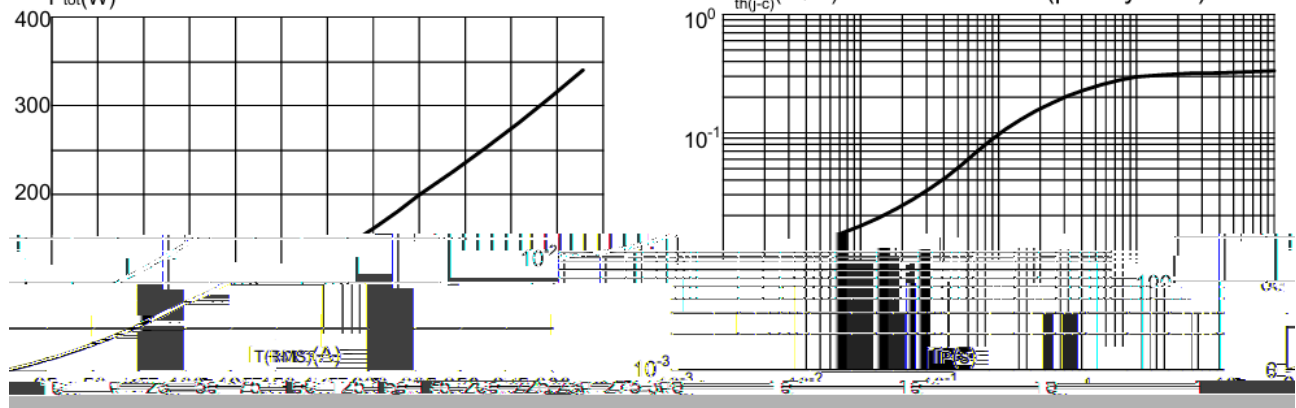
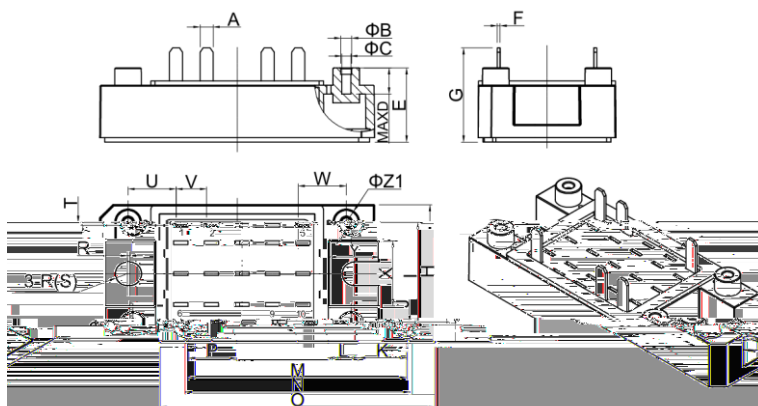
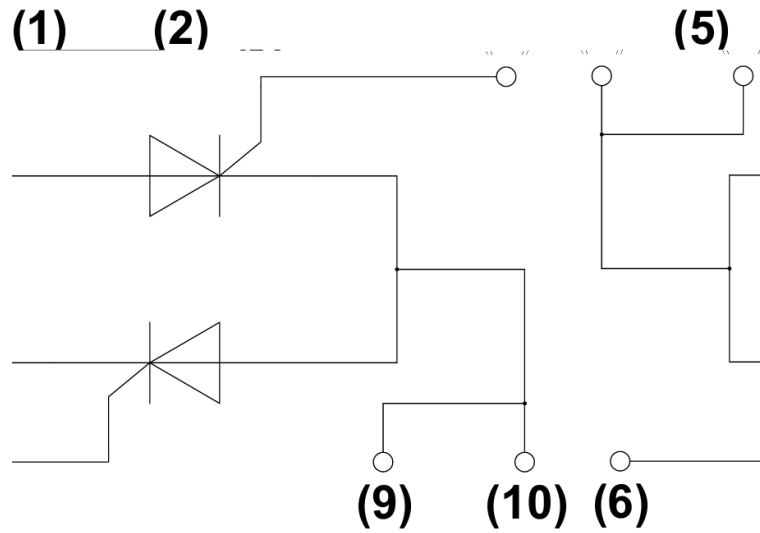


FIG.4: Maximum transient thermal impedance
 $R_{th(j-c)}$ (°C/W) Junction-to-case(per thyristor)





Unit of measurement: mm

Ref	Dimensions					
	Millimeters			Inches		
	Min	Typ	Max	Min	Typ	Max
1	0.78	0.8	0.85	0.031	0.0315	0.0335
2	0.78	0.8	0.85	0.031	0.0315	0.0335
3	0.78	0.8	0.85	0.031	0.0315	0.0335
4	0.78	0.8	0.85	0.031	0.0315	0.0335
5	0.78	0.8	0.85	0.031	0.0315	0.0335
6	0.78	0.8	0.85	0.031	0.0315	0.0335
7	0.78	0.8	0.85	0.031	0.0315	0.0335
8	0.78	0.8	0.85	0.031	0.0315	0.0335
9	0.78	0.8	0.85	0.031	0.0315	0.0335
10	0.78	0.8	0.85	0.031	0.0315	0.0335
11	0.78	0.8	0.85	0.031	0.0315	0.0335
12	0.78	0.8	0.85	0.031	0.0315	0.0335
13	0.78	0.8	0.85	0.031	0.0315	0.0335
14	0.78	0.8	0.85	0.031	0.0315	0.0335
15	0.78	0.8	0.85	0.031	0.0315	0.0335
16	0.78	0.8	0.85	0.031	0.0315	0.0335
17	0.78	0.8	0.85	0.031	0.0315	0.0335
18	0.78	0.8	0.85	0.031	0.0315	0.0335
19	0.78	0.8	0.85	0.031	0.0315	0.0335
20	0.78	0.8	0.85	0.031	0.0315	0.0335
21	0.78	0.8	0.85	0.031	0.0315	0.0335
22	0.78	0.8	0.85	0.031	0.0315	0.0335
23	0.78	0.8	0.85	0.031	0.0315	0.0335
24	0.78	0.8	0.85	0.031	0.0315	0.0335
25	0.78	0.8	0.85	0.031	0.0315	0.0335
26	0.78	0.8	0.85	0.031	0.0315	0.0335
27	0.78	0.8	0.85	0.031	0.0315	0.0335
28	0.78	0.8	0.85	0.031	0.0315	0.0335
29	0.78	0.8	0.85	0.031	0.0315	0.0335
30	0.78	0.8	0.85	0.031	0.0315	0.0335
31	0.78	0.8	0.85	0.031	0.0315	0.0335
32	0.78	0.8	0.85	0.031	0.0315	0.0335
33	0.78	0.8	0.85	0.031	0.0315	0.0335
34	0.78	0.8	0.85	0.031	0.0315	0.0335
35	0.78	0.8	0.85	0.031	0.0315	0.0335
36	0.78	0.8	0.85	0.031	0.0315	0.0335
37	0.78	0.8	0.85	0.031	0.0315	0.0335
38	0.78	0.8	0.85	0.031	0.0315	0.0335
39	0.78	0.8	0.85	0.031	0.0315	0.0335
40	0.78	0.8	0.85	0.031	0.0315	0.0335
41	0.78	0.8	0.85	0.031	0.0315	0.0335
42	0.78	0.8	0.85	0.031	0.0315	0.0335
43	0.78	0.8	0.85	0.031	0.0315	0.0335
44	0.78	0.8	0.85	0.031	0.0315	0.0335
45	0.78	0.8	0.85	0.031	0.0315	0.0335
46	0.78	0.8	0.85	0.031	0.0315	0.0335
47	0.78	0.8	0.85	0.031	0.0315	0.0335
48	0.78	0.8	0.85	0.031	0.0315	0.0335
49	0.78	0.8	0.85	0.031	0.0315	0.0335
50	0.78	0.8	0.85	0.031	0.0315	0.0335
51	0.78	0.8	0.85	0.031	0.0315	0.0335
52	0.78	0.8	0.85	0.031	0.0315	0.0335
53	0.78	0.8	0.85	0.031	0.0315	0.0335
54	0.78	0.8	0.85	0.031	0.0315	0.0335
55	0.78	0.8	0.85	0.031	0.0315	0.0335
56	0.78	0.8	0.85	0.031	0.0315	0.0335
57	0.78	0.8	0.85	0.031	0.0315	0.0335
58	0.78	0.8	0.85	0.031	0.0315	0.0335
59	0.78	0.8	0.85	0.031	0.0315	0.0335
60	0.78	0.8	0.85	0.031	0.0315	0.0335
61	0.78	0.8	0.85	0.031	0.0315	0.0335
62	0.78	0.8	0.85	0.031	0.0315	0.0335
63	0.78	0.8	0.85	0.031	0.0315	0.0335
64	0.78	0.8	0.85	0.031	0.0315	0.0335
65	0.78	0.8	0.85	0.031	0.0315	0.0335
66	0.78	0.8	0.85	0.031	0.0315	0.0335
67	0.78	0.8	0.85	0.031	0.0315	0.0335
68	0.78	0.8	0.85	0.031	0.0315	0.0335
69	0.78	0.8	0.85	0.031	0.0315	0.0335
70	0.78	0.8	0.85	0.031	0.0315	0.0335
71	0.78	0.8	0.85	0.031	0.0315	0.0335
72	0.78	0.8	0.85	0.031	0.0315	0.0335
73	0.78	0.8	0.85	0.031	0.0315	0.0335
74	0.78	0.8	0.85	0.031	0.0315	0.0335
75	0.78	0.8	0.85	0.031	0.0315	0.0335
76	0.78	0.8	0.85	0.031	0.0315	0.0335
77	0.78	0.8	0.85	0.031	0.0315	0.0335
78	0.78	0.8	0.85	0.031	0.0315	0.0335
79	0.78	0.8	0.85	0.031	0.0315	0.0335
80	0.78	0.8	0.85	0.031	0.0315	0.0335
81	0.78	0.8	0.85	0.031	0.0315	0.0335
82	0.78	0.8	0.85	0.031	0.0315	0.0335
83	0.78	0.8	0.85	0.031	0.0315	0.0335
84	0.78	0.8	0.85	0.031	0.0315	0.0335
85	0.78	0.8	0.85	0.031	0.0315	0.0335
86	0.78	0.8	0.85	0.031	0.0315	0.0335
87	0.78	0.8	0.85	0.031	0.0315	0.0335
88	0.78	0.8	0.85	0.031	0.0315	0.0335
89	0.78	0.8	0.85	0.031	0.0315	0.0335
90	0.78	0.8	0.85	0.031	0.0315	0.0335
91	0.78	0.8	0.85	0.031	0.0315	0.0335
92	0.78	0.8	0.85	0.031	0.0315	0.0335
93	0.78	0.8	0.85	0.031	0.0315	0.0335
94	0.78	0.8	0.85	0.031	0.0315	0.0335
95	0.78	0.8	0.85	0.031	0.0315	0.0335
96	0.78	0.8	0.85	0.031	0.0315	0.0335
97	0.78	0.8	0.85	0.031	0.0315	0.0335
98	0.78	0.8	0.85	0.031	0.0315	0.0335
99	0.78	0.8	0.85	0.031	0.0315	0.0335
100	0.78	0.8	0.85	0.031	0.0315	0.0335



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