

# P

**RODUCT BRIEF**

## PRESSURE CONTACT MODULES



### FEATURES

#### Pressure Contact Modules

- Pressure contact technology for high reliability
- Industrial standard package
- Simplified mechanical design, rapid assembly
- Gold metallization for semiconductor element
- Electrically isolated base plate, Isolation voltage 3.0KVrms per one minute
- Mean on-state current and forward currents up to 810A
- Blocking voltage up to 4500V
- Certified by UL Standard (Underwriters Laboratories)

### APPLICATIONS

- MV Drives
- Motor Controls
- Power Supplies
- UPS
- Welding
- Induction Heating/Melting
- Battery Chargers



## THYRISTOR-THYRISTOR MODULES

Type	$V_{DRM}, V_{RRM}$ [V] $V_{DSM} = V_{DRM}$ $V_{RSM} = V_{RRM} + 100V$	$I_{TAVM} / T_C$ [A / °C] @180° Sine	$I_{TSM}$ [A] @ 10ms $T_{jmax}$	$\int i^2 t$ [A <sup>2</sup> S] @ 10ms $T_{jmax}$	$V_T / I_T$ [V / A] @25°C	$V_{F(TO)}$ [V] @ $T_{jmax}$	$r_T$ [mΩ] @ $T_{jmax}$	$R_{thJC}$ [°C/W] @180° Sine	$R_{thch}$ [°C/W]	$T_{jmax}$ [°C]
<b>PB50 Base Plate</b>										
MS TT139K	3000 --- 3600	139 / 85	3200	51200	2.54 / 400	1.50	2.60	0.12	0.04	125
MS TT169K	3000 --- 3600	169 / 85	4000	80000	2.60 / 600	1.20	2.30	0.11	0.04	125
MS TT170K	800 --- 1800	170 / 85	5000	125000	1.65 / 600	0.95	1.00	0.17	0.04	125
MS TT200K	2000 --- 2800	237 / 85	5500	151250	2.00 / 785	0.90	1.10	0.11	0.04	125
MS TT210K	800 --- 1800	210 / 85	5800	168000	1.65 / 700	1.00	0.85	0.13	0.04	125
MS TT215K	2000 --- 2200	215 / 85	9000	405000	1.75 / 800	0.95	0.92	0.13	0.04	125
MS TT250K	800 --- 1800	250 / 85	8000	320000	1.53 / 600	0.85	1.00	0.11	0.04	125
MS TT252K	2000 --- 2400	283 / 85	7600	288800	1.50 / 785	0.80	0.70	0.11	0.04	125
MS TT260K	2000 --- 2200	260 / 85	8000	320000	1.45 / 800	0.85	0.64	0.12	0.04	125
MS TT261K	2000 --- 2400	261 / 85	8000	320000	1.45 / 800	0.85	0.64	0.12	0.04	125
MS TT320K	200 --- 1800	320 / 85	8000	320000	1.32 / 600	0.84	0.45	0.105	0.04	125
MS TT330K	200 --- 1800	330 / 80	8000	320000	1.40 / 750	0.84	0.58	0.105	0.04	125
<b>PB60 Base Plate</b>										
MS TT240K	2000 --- 4000	240 / 74	6000	180000	3.50 / 1000	1.563	2.141	0.065	0.02	125
MS TT262K	3000 --- 4400	262 / 85	5000	125000	2.30 / 628	1.4	1.30	0.068	0.02	125
MS TT310K	2000 --- 2600	310 / 85	9000	405000	2.22 / 1300	1.0	0.86	0.078	0.02	125
MS TT321K	3000 --- 3600	321 / 85	5500	151000	2.20 / 785	1.15	0.80	0.068	0.02	125
MS TT430K	2000 --- 2400	430 / 85	15000	1125000	1.78 / 1500	0.95	0.45	0.065	0.02	125
MS TT460K	800 --- 1800	460 / 83	15500	1201000	1.60 / 1400	0.88	0.45	0.066	0.02	125
MS TT461K	2000 --- 2800	461 / 85	12000	720000	2.0 / 1600	1.1	0.552	0.05	0.02	125
MS TT500K	200 --- 1800	500 / 85	17000	1445000	1.45 / 1500	1.01	0.25	0.061	0.02	125
MS TT501K	200 --- 1600	501 / 86	17500	1531000	1.30 / 1500	0.90	0.26	0.064	0.02	125
MS TT510K	1800 --- 2200	510 / 70	15000	1125000	1.47 / 1500	0.95	0.45	0.065	0.02	125
MS TT520K	2000 --- 2200	520 / 85	15400	1186000	1.50 / 1500	0.85	0.35	0.058	0.02	125
MS TT540K	200 --- 1800	540 / 85	15000	1125000	1.40 / 1500	0.92	0.24	0.060	0.02	125
MS TT600K	200 --- 1800	600 / 85	14000	980000	1.27 / 1500	0.80	0.23	0.058	0.02	125

## DIODE - DIODE MODULES

Type	$V_{RRM}$ [V] $V_{RSM} = V_{RRM} + 100V$	$I_{FAVM} / T_C$ [A / °C] @180° Sine	$I_{FSM}$ [A] @ 10ms $T_{jmax}$	$\int i^2 t$ [A <sup>2</sup> S] @ 10ms $T_{jmax}$	$V_F / I_F$ [V / A] @25°C	$V_{F(TO)}$ [V] @ $T_{jmax}$	$r_{FT}$ [mΩ] @ $T_{jmax}$	$R_{thJC}$ [°C/W] @180° Sine	$R_{thch}$ [°C/W]	$T_{jmax}$ [°C]
<b>PB50 Base Plate</b>										
MS DD250K	3000 --- 3600	250 / 98	5000	125000	2.0 / 785	0.90	1.57	0.11	0.04	150
MS DD260K	200 --- 1800	260 / 100	10000	500000	1.40 / 800	0.70	0.68	0.17	0.04	150
MS DD261K	600 --- 2400	261 / 112	8000	320000	1.35 / 1500	0.71	0.42	0.14	0.06	150
MS DD285K	400 --- 800	285 / 100	8300	605000	1.15 / 800	0.75	0.40	0.17	0.04	150
MS DD320K	600 --- 2000	320 / 101	8000	320000	1.35 / 1500	0.71	0.42	0.14	0.06	150
MS DD321K	2000 --- 2800	321 / 107	8500	361000	1.40 / 785	0.85	0.45	0.11	0.04	150
MS DD350K	200 --- 1800	350 / 100	11000	605000	1.35 / 1000	0.75	0.40	0.13	0.04	150
MS DD360K	2000 --- 2200	360 / 100	11000	605000	1.40 / 1500	0.75	0.40	0.125	0.04	150
MS DD380K	200 --- 1800	380 / 100	11500	661000	1.40 / 1500	0.75	0.32	0.125	0.04	150
MS DD381K	2000 --- 2200	381 / 100	11500	661000	1.40 / 1500	0.75	0.32	0.125	0.04	150
<b>PB60 Base Plate</b>										
MS DD450K	3200 --- 4000	450 / 107	15050	1132000	1.90 / 1800	0.85	0.55	0.065	0.02	150
MS DD480K	4000 --- 4500	480 / 87	9000	405000	2.19 / 1600	0.89	0.815	0.07	0.02	150
MS DD500K	200 --- 1800	500 / 100	14000	980000	1.35 / 1500	0.84	0.24	0.088	0.03	150
MS DD515K	2800 --- 3600	515 / 100	13000	845000	1.60 / 1256	0.80	0.50	0.068	0.02	150
MS DD600K	200 --- 1800	600 / 100	19000	1805000	1.35 / 1880	0.75	0.215	0.078	0.02	150
MS DD601K	800 --- 2600	601 / 106	29000	4205000	1.18 / 1500	0.914	0.145	0.065	0.02	150
MS DD700K	2000 --- 2200	700 / 100	19000	1805000	1.36 / 2200	0.78	0.185	0.065	0.02	150
MS DD710K	200 --- 2000	710 / 100	22000	2420000	1.30 / 2200	0.75	0.145	0.069	0.02	150
MS DD810K	200 --- 1800	810 / 85	19000	1805000	1.24 / 2000	0.78	0.23	0.062	0.02	150

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