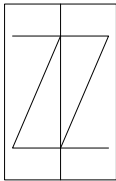
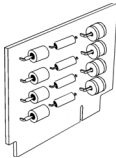
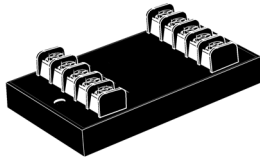
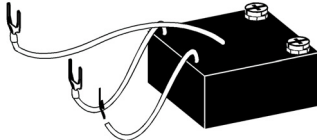
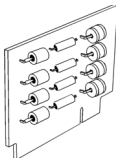
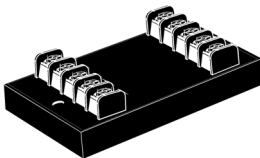
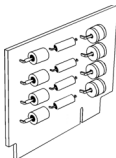
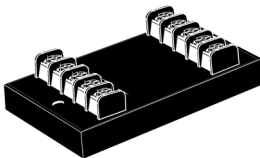
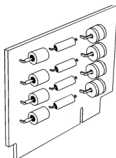
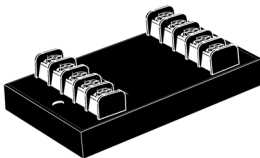
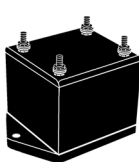
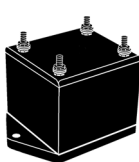


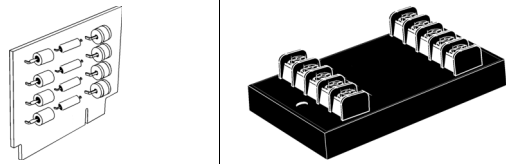
THYRISTOR SURGE SUPPRESSORS									
PART NUMBER	REPETITIVE PEAK OFF-STATE VOLTAGE - V_{DRM}	SWITCHING VOLTAGE - V_s	MINIMUM HOLDING CURRENT - mA I_H	SWITCHING CURRENT - mA I_S	MAX. OFF-STATE CURRENT - μA @ V_{DRM}	MAX. ON-STATE VOLTAGE - V_T	ON-STATE CURRENT - A I_T	CAPACITANCE C_T - pF	PIN CONFIGURATION  DO-214AA
PP0080SA	6	25	50	800	5	4	2.2	50	
PP0300SA	25	40	50	800	5	4	2.2	60	
PP0640SA	58	77	150	800	5	4	2.2	60	
PP0720SA	65	88	150	800	5	4	2.2	60	
PP0800SA	75	98	150	800	5	4	2.2	60	
PP1100SA	90	130	150	800	5	4	2.2	60	
PP1300SA	120	160	150	800	5	4	2.2	40	
PP1500SA	140	180	150	800	5	4	2.2	40	
PP1800SA	160	220	150	800	5	4	2.2	40	
PP2300SA	190	260	150	800	5	4	2.2	30	
PP2600SA	220	300	150	800	5	4	2.2	30	
PP3100SA	275	350	150	800	5	4	2.2	30	
PP3500SA	300	400	150	800	5	4	2.2	30	
PP0080SB	6	25	50	800	5	4	2.2	60	
PP0300SB	25	40	50	800	5	4	2.2	110	
PP0640SB	58	77	150	800	5	4	2.2	60	
PP0720SB	65	88	150	800	5	4	2.2	60	
PP0800SB	75	98	150	800	5	4	2.2	60	
PP1100SB	90	130	150	800	5	4	2.2	60	
PP1300SB	120	160	150	800	5	4	2.2	40	
PP1500SB	140	180	150	800	5	4	2.2	40	
PP1800SB	160	220	150	800	5	4	2.2	40	
PP2300SB	190	260	150	800	5	4	2.2	30	
PP2600SB	220	300	150	800	5	4	2.2	30	
PP3100SB	275	350	150	800	5	4	2.2	30	
PP3500SB	300	400	150	800	5	4	2.2	30	
PP0080SC	6	25	50	800	5	4	2.2	30	
PP0300SC	25	40	50	800	5	4	2.2	60	
PP0640SC	58	77	150	800	5	4	2.2	120	
PP0720SC	65	88	150	800	5	4	2.2	120	
PP0800SC	75	98	150	800	5	4	2.2	120	
PP1100SC	90	130	150	800	5	4	2.2	120	
PP1300SC	120	160	150	800	5	4	2.2	80	
PP1500SC	140	180	150	800	5	4	2.2	80	
PP1800SC	160	220	150	800	5	4	2.2	80	
PP2300SC	190	260	150	800	5	4	2.2	60	
PP2600SC	220	300	150	800	5	4	2.2	60	
PP3100SC	275	350	150	800	5	4	2.2	60	
PP3500SC	300	400	150	800	5	4	2.2	60	

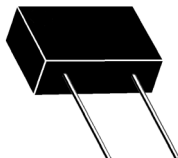
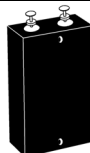
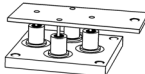
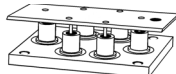
SURGE RATINGS								
SERIES	I_{PP} 2 X 10 μ s AMPS	I_{PP} 8 X 20 μ s AMPS	I_{PP} 10 X 160 μ s AMPS	I_{PP} 10 X 560 μ s AMPS	I_{PP} 10 X 1000 μ s AMPS	I_{TSM} 60 Hz AMPS	di/dt AMPS/ μ s (Note 1)	dv/dt V/ μ s (Note 1)
SA	150	150	100	50	50	20	500	2000
SB	300	300	150	100	80	32	500	2000
SC	500	400	200	200	100	60	500	2000

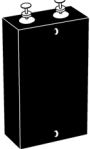
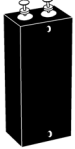
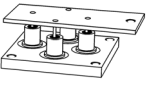
Note 1: Critical Rate of Rise for On-State Current (di/dt) and Off-State Voltage (dv/dt).

THYRISTOR SURGE SUPPRESSORS									
PART NUMBER	REPETITIVE PEAK OFF-STATE VOLTAGE - V_{DRM}	SWITCHING VOLTAGE - V_s	MINIMUM HOLDING CURRENT - mA I_H	SWITCHING CURRENT - mA I_S	MAX. OFF-STATE CURRENT - μA @ V_{DRM}	MAX. ON-STATE VOLTAGE - V_T	ON-STATE CURRENT - A I_T	CAPACITANCE C_T - pF	PIN CONFIGURATION
PSLIC1	170	-	150	-	5	-	30	70	SO-8
PSMP30-240	240	-	150	-	-	-	3A @ 15 min	10	DO-214AC

HIGH POWERED MODULES								
PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	CLAMPING VOLTAGE - V_c @ 8/20 μ S	MAX. CURRENT @ 8/20 μ s - kA/Line	LEAKAGE CURRENT - μ A @ V_{WM}	SERIES RESISTANCE OHMS	CAPACITANCE pF	PACKAGE	
232B	± 25	40.0 @ 500A	10	5	12	2000	 	
232E	± 25	40.0 @ 500A	10	5	12	2000		
Note: Lines of protection: 2 pair.								
420E212	± 12.0	22.0 @ 2kA	10	5	12	6000		
420E225	± 25.0	44.0 @ 2kA	10	5	12	3000		
420E228	± 28.0	46.0 @ 2kA	10	5	12	2800		
420E236	± 36.0	60.0 @ 2kA	10	5	12	1500		
420E250	± 50.0	80.0 @ 2kA	10	5	12	1200		
420E260	± 60.0	95.0 @ 2kA	10	5	12	1000		
Note: Lines of protection: 1 pair.								
420LB28	± 28.0	40.0 @ 2kA	10	5	12	2800	 	
420LB35	± 35.0	60.0 @ 2kA	10	5	12	1500		
420LB60	± 60.0	85.0 @ 2kA	10	5	12	1000		
420LE28	± 28.0	40.0 @ 2kA	10	5	12	2800		
420LE35	± 35.0	60.0 @ 2kA	10	5	12	1500		
420LE60	± 60.0	85.0 @ 2kA	10	5	12	1000		
Note: Lines of protection: 2 pair.								
422B	± 12.0	24.0 @ 500A	10	5	12	5000	 	
422E	± 12.0	24.0 @ 500A	10	5	12	5000		
Note: Lines of protection: 2 pair.								
422ELC	± 12.0	30.0 @ 500A	10	1	12	25	 	
485ELC	± 7.0	20.0 @ 500A	10	10	12	25		
Note: Lines of protection: 2 pair.								
587B051	130.0 AC	350.0	3	1mA	-	-	 	
587B151	130.0 AC	350.0	3	1mA	-	-		
587B201	130.0 AC	350.0	3	1mA	-	-		
587B301	130.0 AC	350.0	3	1mA	-	-		
Note: Maximum Line Current: 5A, 15A, 20A, 30. Line to Neutral.								
587B062	240.0 AC	800.0	3	1mA	-	-		
587B162	240.0 AC	800.0	3	1mA	-	-		
587B302	240.0 AC	800.0	3	1mA	-	-		
Note: Maximum Line Current: 6A, 16A, 30A. Line to Neutral.								
587B051LP	120.0 AC	330.0	3	1mA	-	-		
587B101LP	120.0 AC	330.0	3	1mA	-	-		
587B151LP	120.0 AC	330.0	3	1mA	-	-		
587B301LP	120.0 AC	330.0	3	1mA	-	-		
Note: Maximum Line Current: 5A, 10A, 15A, 30A. Line to Neutral.								
587B062LP	240.0 AC	800.0	3	1mA	-	-		
587B102LP	240.0 AC	800.0	3	1mA	-	-		
587B162LP	240.0 AC	800.0	3	1mA	-	-		
587B302LP	240.0 AC	800.0	3	1mA	-	-		
Note: Maximum Line Current: 6A, 10A, 16A, 30A. Line to Neutral.								
587B062LPE	240.0 AC	800.0	3	1mA	-	-	 	
587B102LPE	240.0 AC	800.0	3	1mA	-	-		
587B162LPE	240.0 AC	800.0	3	1mA	-	-		
587B302LPE	240.0AC	800.0	3	1mA	-	-		
Note: Maximum Line Current: 6A, 10A, 16A, 30A. Line to Neutral.								
PHCR660-1.0	440.0	1000	1	5	5	-		
PHCR880-1.0	660.0	1300	1	5	5	-		
PHCR660-2.5	440.0	1000	2.5	5	5	-		
PHCR880-2.5	660.0	1250	2.5	5	5	-		
PHCR660-5	440.0	1000	5	5	5	-		
PHCR880-5	660.0	1250	5	5	5	-		
PHCR660-10	440.0	1000	10	5	5	-		
PHCR880-10	660.0	1250	10	5	5	-		

HIGH POWERED MODULES							
PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	CLAMPING VOLTAGE - V_c @ 8/20 μ S	MAX. CURRENT @ 8/20 μ s – kA/Line	LEAKAGE CURRENT - μ A @ V_{WM}	SERIES RESISTANCE OHMS	CAPACITANCE pF	PACKAGE 
TEL50B	±50.0	95.0 @ 500A	10	5	12	800	
TEL50E	±50.0	95.0 @ 500A	10	5	12	800	
TEL185B	±185.0	330.0 @ 500A	10	5	12	800	
TEL185E	±185.0	330.0 @ 500A	10	5	12	800	
Note: Lines of protection: 2 pair.							

HIGH POWERED MODULES							
PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - $V_{(BR)}$	CLAMPING VOLTAGE - V_c	CURRENT I_{PP} @ 10/1000 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	POWER @ 10/1000 μ s - kW	
100KS200CNH	180.0	200.0	335.0	300	0.5	100kW	  THRU-HOLE (KP Series)
15KP17	17.0	18.9	32.3	464.0	5000	15	
Not all voltages show for the 15KP Series. Please consult the factory for other voltages.							
15KP280A	280.0	311.0	452.0	33.0	10	15	
Note: Part numbers shown are unidirectional devices. Add a "CA" suffix to specify bidirectional devices, such as '15KP280CA'.							
60KS200C	180.0	200.0	335.0	180.0	10	60kW @ 1.2/50 μ s	
90KS200C	180.0 180.0	200.0 200.0	280.0 335.0	180.0 270.0	0.5 0.5	90kW @ 1.2/50 μ s	
704-15K36	31.5	36.0	53.0	300.0	100	15	 
704-15K36P	31.5	36.0	53.0	300.0	100	15	
704-15K36T	31.5	36.0	53.0	300.0	500	15	
GPZ532	28.0	32.0	40.0	100	50	10kW @ 1ms	 
GPZ1275	28.0	32.0	55.0	500	60	30kW @ 1ms	
GPZ1275B60K	28.0	32.0	55.0	1000	60	60kw @ 1ms	
Note: I_{PP} @ 1 ms for GPZ Series.							

HIGH POWERED MODULES							PACKAGE
PART NUMBER	STAND-OFF VOLTAGE - V_{WM}	MIN. BREAKDOWN VOLTAGE - V_{BR}	CLAMPING VOLTAGE - V_C	CURRENT I_{PP} @ 10/1000 μ s - A	LEAKAGE CURRENT - μ A @ V_{WM}	POWER @ 10/1000 μ s - kW	
PHP8.4	12.0	14.0	22.0	341.0	250	7.5	
PHP24	34.0	40.0	67.0	112.0	250	7.5	
PHP30	42.5	50.0	84.0	90.0	250	7.5	
PHP60	85.0	100.0	167.0	90.0	250	15	
PHP120*	170.0	200.0	319.0	47.0	250	15	
PHP208	295.0	347.0	536.0	28.0	250	15	
PHP250*	354.0	418.0	652.0	23.0	250	15	
PHP275	390.0	460.0	710.0	21.0	250	15	
PHP440	623.0	735.0	1138.0	13.2	250	15	
PHP500*	708.0	835.0	1292.0	11.6	250	15	
PIP8.4	12.0	14.0	22.0	341.0	250	7.5	
PIP24	34.0	40.0	67.0	112.0	250	7.5	
PIP30	42.5	50.0	84.0	90.0	250	7.5	
PIP60	85.0	100.0	167.0	90.0	250	15	
PIP120*	170.0	200.0	319.0	47.0	250	15	
PIP208	295.0	347.0	536.0	28.0	250	15	
PIP250*	354.0	418.0	652.0	23.0	250	15	
PIP440	623.0	735.0	1138.0	13.2	250	15	
PIP500*	708.0	835.0	1292.0	11.6	250	15	
Note: PHP Series is typically used in Aerospace applications. PIP Series is typically used in Industrial applications. *Indicates marine applications.							
PNH1275	28	32	52	865	60	45kW 1ms	
PNH1275B	28	32	52	865	60	45kW 1ms	
PPZ516	14	16	20	200	40	20kW 1ms	
PPZ516B	14	16	20	200	40	20kW 1ms	