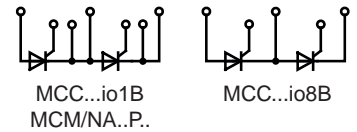


Thyristor Modules, Dual



$$I_{TAV} = 18 - 60 \text{ A}$$

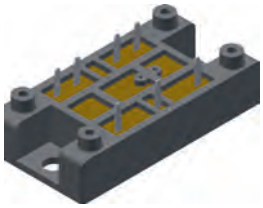



Type	V_{RRM} V_{DRM}	I_{TAV}	T_C	$I_{T(RMS)}$	I_{TSM} 45°C 10 ms	V_{T0}	r_T	T_{VJM}	R_{thJC}	R_{thCH}	Fig. No.	Package style Outline drawings on pages O-36...O-59
	V	A	°C	A	A	V	mΩ	°C	K/W	K/W		
MCC 19-08io1B	800	18	85	40	400	0.85	18.0	125	1.30	0.2	X125a	 <p>X125a TO-240AA</p>
MCC 19-12io1B	1200											
MCC 19-14io1B	1400											
MCC 19-16io1B	1600											
MCC 19-08io8B	800	18	85	40	400	0.85	18.0	125	1.30	0.2	X125c	
MCC 19-12io8B	1200											
MCC 19-14io8B	1400											
MCC 19-16io8B	1600											
MCC 21-08io8B	800	21	85	33	320	0.85	15.0	125	1.10	0.2		
MCC 21-12io8B	1200											
MCC 21-14io8B	1400											
MCC 21-16io8B	1600											
MCMA 25P1200TA	1200	25	85	40	400	0.87	13.0	140	1.20	0.2	X125a	
MCMA 25P1600TA	1600											
MCC 26-08io1B	800	27	85	50	520	0.85	11.0	125	0.88	0.2		
MCC 26-12io1B	1200											
MCC 26-14io1B	1400											
MCC 26-16io1B	1600											
MCC 26-08io8B	800	27	85	50	520	0.85	11.0	125	0.88	0.2	X125c	
MCC 26-12io8B	1200											
MCC 26-14io8B	1400											
MCC 26-16io8B	1600											
MCMA 35P1200TA	1200	35	85	55	520	0.87	9.8	140	0.90	0.2	X125a	
MCMA 35P1600TA	1600											
MCC 44-08io1B	800	49	85	77	1150	0.85	5.3	125	0.53	0.2		
MCC 44-12io1B	1200											
MCC 44-14io1B	1400											
MCC 44-16io1B	1600											
MCC 44-18io1B	1800											
MCC 44-08io8B	800	49	85	77	1150	0.85	5.3	125	0.53	0.2	X125c	
MCC 44-12io8B	1200											
MCC 44-14io8B	1400											
MCC 44-16io8B	1600											
MCC 44-18io8B	1800											
MCNA 40P2200TA	2200	40	85	63	500	0.84	11.4	140	0.70	0.2	X125a	
MCMA 50P1200TA	1200	50	85	79	800	0.89	5.3	140	0.70	0.2		
MCMA 50P1600TA	1600											
MCC 56-08io1B	800	60	85	100	1500	0.85	3.7	125	0.45	0.2		
MCC 56-12io1B	1200											
MCC 56-14io1B	1400											
MCC 56-16io1B	1600											
MCC 56-18io1B	1800											
MCC 56-08io8B	800	60	85	100	1500	0.85	3.7	125	0.45	0.2	X125c	
MCC 56-12io8B	1200											
MCC 56-14io8B	1400											
MCC 56-16io8B	1600											
MCC 56-18io8B	1800											

Data according to IEC 60747 and refer to a single diode or thyristor unless otherwise stated.

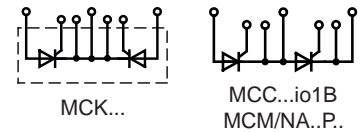
Thyristor Modules, Dual








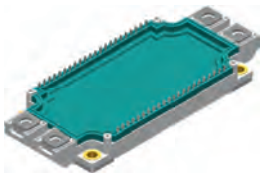
$$I_{TAV} = 55 - 140 \text{ A}$$

Type	V_{RRM} V_{DRM}	I_{TAV}	T_C	$I_{T(RMS)}$	I_{TSM} 45°C 10 ms	V_{T0}	r_T	T_{VJM}	R_{thJC}	R_{thCH}	Fig. No.	Package style Outline drawings on pages O-36...O-59
	V	A	°C	A	A	V	mΩ	°C	K/W	K/W		
MCNA 55P2200TA	2200	55	85	86	800	0.90	9.00	140	0.50	0.20	X125a	 <p>X103 V1-A-Pack</p>
MCMA 65P1200TA	1200	65	85	105	1150	0.85	4.80	140	0.50	0.20		
MCMA 65P1600TA	1600											
MCMA 65P1800TA	1800											
MCC 72-08io1B	800	85	85	180	1700	0.85	3.20	125	0.30	0.20		
MCC 72-12io1B	1200											
MCC 72-14io1B	1400											
MCC 72-16io1B	1600											
MCC 72-18io1B	1800											
MCC 72-08io8B	800	85	85	180	1700	0.85	3.20	125	0.30	0.20	X125c	
MCC 72-12io8B	1200											
MCC 72-14io8B	1400											
MCC 72-16io8B	1600											
MCC 72-18io8B	1800											
MCNA 75P2200TA	2200	75	85	118	1050	0.90	6.50	140	0.38	0.20	X125a	 <p>X125a TO-240AA</p>
MCMA 85P1200TA	1200	85	85	135	1500	0.85	3.90	140	0.38	0.20		
MCMA 85P1600TA	1600											
MCMA 85P1800TA	1800											
MCC 94-20io1B	2000	104	85	180	1700	0.85	3.20	125	0.22	0.20		
MCC 94-22io1B	2200											
MCC 94-24io1B	2400											
MCC 95-08io1B	800	116	85	180	2250	0.83	2.40	125	0.22	0.20		
MCC 95-12io1B	1200											
MCC 95-14io1B	1400											
MCC 95-16io1B	1600											
MCC 95-18io1B	1800											
MCC 95-08io8B	800	116	85	180	2250	0.85	2.40	125	0.22	0.20	X125c	 <p>X125c TO-240</p>
MCC 95-12io8B	1200											
MCC 95-14io8B	1400											
MCC 95-16io8B	1600											
MCC 95-18io8B	1800											
MCNA 95P2200TA	2200	95	85	149	1400	0.90	5.00	140	0.30	0.20	X125a	
MCMA 110P1200TA	1200	110	85	170	1900	0.85	3.30	140	0.30	0.20		
MCMA 110P1600TA	1600											
MCMA 110P1800TA	1800											
MCMA 110P1600VA	1600										X103	
MCNA 120P2200TA	2200	120	85	190	1700	0.90	3.70	140	0.22	0.20	X125a	
MCMA 140P1200TA	1200	140	85	220	2400	0.85	2.80	140	0.22	0.20		 <p>X126a Y4</p>
MCMA 140P1400TA	1400											
MCMA 140P1600TA	1600											
MCMA 140P1800TA	1800											
MCC 132-08io1	800	130	85	300	4750	0.80	1.50	125	0.23	0.10	X126a	
MCC 132-12io1	1200											
MCC 132-14io1	1400											
MCC 132-16io1	1600											
MCC 132-18io1	1800											

Thyristor Modules, Dual



$I_{TAV} = 150 - 700 \text{ A}$

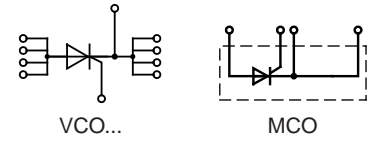
Type	V_{RRM} V_{DRM}	I_{TAV}	T_C	$I_{T(RMS)}$	I_{TSM} 45°C 10 ms	V_{TO}	r_T	T_{VJM}	R_{thJC}	R_{thCH}	Fig. No.	Package style Outline drawings on pages O-36...O-59
➤ New	V	A	°C	A	A	V	mΩ	°C	K/W	K/W		
➤ MCNA 150P2200YA	2200	150	85	235	4300	0.86	2.10	140	0.210	0.11	X126a	X126a Y4 
MCC 161-20io1	2000	165	85	300	6000	0.80	1.60	125	0.155	0.07		
MCC 161-22io1	2200											
MCC 162-08io1	800	181	85	300	6000	0.88	1.15	125	0.155	0.07		
MCC 162-12io1	1200											
MCC 162-14io1	1400											
MCC 162-16io1	1600											
MCC 162-18io1	1800											
➤ MCNA 180P2200YA	2200	180	85	280	5400	0.85	1.80	140	0.170	0.09		
MCMA 200P1600SA	1600	200	90	314	6000	0.81	1.60	140	0.150	0.08	X141a	X129a Y2 
MCC 200-14io1	1400	216	85	340	8000	0.80	1.40	125	0.130	0.05	X126a	
MCC 200-16io1	1600											
MCC 200-18io1	1800											
MCK 200-18io1	1800	216	85	340	8000	0.80	1.40	125	0.130	0.05		
➤ MCNA 220P2200YA	2200	220	85	345	7200	0.84	1.50	140	0.130	0.07		
MCC 224-20io1	2000	240	85	400	8000	0.80	0.76	130	0.139	0.04	X131a	X131a Y1 
MCC 224-22io1	2200											
MCC 224-24io1	2400											
MCC 225-12io1	1200	221	85	400	8000	0.80	0.76	130	0.157	0.04		
MCC 225-14io1	1400											
MCC 225-16io1	1600											
MCC 225-18io1	1800											
➤ MCNA 250P2200PTSF	2200	250	85	400	5900	0.76	2.20	150	0.100	0.05	X143a	X141a SimBus A 
MCC 255-12io1	1200	250	85	450	9000	0.80	0.68	130	0.140	0.04	X131a	
MCC 255-14io1	1400											
MCC 255-16io1	1600											
MCC 255-18io1	1800											
MCMA 260P1600YA	1600	260	85	408	8300	0.81	1.23	140	0.130	0.08	X126a	
MCMA 260P1800YA	1800											
MCMA 265P1600KA	1600	260	85	408	8500	0.80	0.75	140	0.160	0.04	X131a	
MCMA 265P1800KA	1800											
➤ MCMA 280P1600PTSF	1600	280	85	440	7000	0.83	1.57	150	0.100	0.05	X143a	
MCC 310-08io1	800	320	85	500	9200	0.80	0.82	140	0.112	0.04	X129a	X142a ComPack 
MCC 310-12io1	1200											
MCC 310-14io1	1400											
MCC 310-16io1	1600											
MCC 310-18io1	1800											
MCC 312-12io1	1200	320	85	520	9200	0.80	0.68	140	0.120	0.04	X131a	
MCC 312-14io1	1400											
MCC 312-16io1	1600											
MCC 312-18io1	1800											
➤ MCNA 360P2200PTSF	2200	360	85	570	8400	0.74	1.57	150	0.070	0.04	X143a	
➤ MCMA 400P1600PTSF	1600	400	85	630	10000	0.82	1.14	150	0.070	0.04		
➤ MCNA 500P2200PTSF	2200	500	85	790	11000	0.75	1.11	150	0.050	0.03		
➤ MCMA 550P1600PTSF	1600	550	85	860	13000	0.82	0.80	150	0.050	0.03		
MCNA 650P2200CA	2200	650	85	1020	16000	0.75	0.63	140	0.045	0.02	X142a	X143a SimBus F PFP 
MCMA 700P1600CA	1600	700	85	1100	19000	0.82	0.40	140	0.050	0.02		
MCMA 700P1800CA	1800											
MCMA 700P1600NCA	1600	700	85	1200	19000	0.82	0.40	140	0.05	0.02		
MCMA 700P1800NCA	1800											

For more dual thyristor modules with higher current, please see pages 160 and 166

See data sheet for pin arrangement

Thyristor Modules, Single

$I_{TAV} = 32 - 600 \text{ A}$



Type	V_{RRM} V_{DRM} V	I_{TAV} A	T_C °C	$I_{T(RMS)}$ A	I_{TSM} 45°C 10 ms A	V_{T0} V	r_T mΩ	T_{VJM} °C	R_{thJC} K/W	R_{thCH} K/W	Fig. No.	Package style Outline drawings on pages O-36...O-59				
MCO 25-12io1 MCO 25-16io1	1200 1600	32	80	50	370	0.86	13.90	150	1.100	0.30	X027a					
MCO 50-12io1 MCO 50-16io1	1200 1600	57	80	90	740	0.88	6.00	150	0.720	0.20						
MCO 75-12io1 MCO 75-16io1	1200 1600	80	80	125	1070	0.85	5.50	150	0.450	0.10						
MCO 100-12io1 MCO 100-16io1	1200 1600	101	80	160	1400	0.85	4.50	150	0.350	0.10						
MCO 150-12io1 MCO 150-16io1	1200 1600	158	80	250	2000	0.84	3.50	150	0.200	0.10						
MCO 450-20io1 MCO 450-22io1	2000 2200	464	85	750	15000	0.77	0.42	130	0.072	0.02			X132a			
MCO 500-12io1 MCO 500-14io1 MCO 500-16io1 MCO 500-18io1	1200 1400 1600 1800	560	85	880	17000	0.80	0.38	140	0.072	0.02						
MCO 600-16io1 MCO 600-18io1 MCO 600-20io1 MCO 600-22io1	1600 1800 2000 2200	600	85	940	15000	0.81	0.40	140	0.065	0.02						
VCO 132-12io7 VCO 132-16io7	1200 1600	130	85	200	3600	0.80	1.65	150	0.250	0.10					X102	
VCO 180-12io7 VCO 180-16io7	1200 1600	180	90	280	4500	0.75	1.23	150	0.170	0.06						

For more single thyristor modules with higher current, please see page 161.

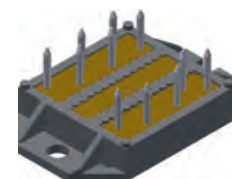
X027a SOT-227B miniBLOC



X132a Y1



X102 ECO-PAC 2



See data sheet for pin arrangement