

Diode & Thyristor Modules

WUXI GOLD CONTROL TECHNOLOGY CO., LTD.



$I_{T(AV)}=35A \sim 300A$, $V_{R(M)}=400V \sim 2500V$, $T_{j(m)}=150^{\circ}C$

The parameters in the table are the ratings and characteristics of each diode chip in module

Suitable for types: MDG, MDY



Three Phase Half Bridge Rectifier Modules(non-isolated type)



TYPE	$V_{R(M)}$ (V)	$I_{R(M)}$ (mA)	$I_{T(AV)}$ (A)	T_C ($^{\circ}C$)	$I_{R(M)}$ (A)	$V_{R(M)}$ (V)	$V_{T(O)}$ (V)	$R_{th(j-a)}$ ($^{\circ}C/W$)	Fig	Circuit
MDG35	400~2500	≤ 10	35	100	55	≤ 1.3	1.0	1.28	8	
MDG55	400~2500	≤ 10	55	90	86	≤ 1.3	1.0	0.98	8	
MDG70	400~2500	≤ 10	70	90	110	≤ 1.3	0.8	0.78	8	
MDG90	400~2500	≤ 10	90	85	140	≤ 1.3	0.8	0.66	8, 14	
MDG110	400~2500	≤ 10	110	85	170	≤ 1.3	0.85	0.53	8, 14	
MDG130	400~2500	≤ 15	130	85	200	≤ 1.3	0.85	0.45	8, 14	
MDG150	400~2500	≤ 15	150	85	236	≤ 1.3	0.8	0.39	8, 14	
MDG200	400~2500	≤ 15	200	85	310	≤ 1.5	0.9	0.27	8, 14	
MDG250	400~2500	≤ 20	250	85	390	≤ 1.5	0.8	0.22	See website	
MDG300	400~2500	≤ 20	300	80	470	≤ 1.5	0.75	0.19	See website	

$I_{T(AV)}=25A \sim 300A$, $V_{R(M)}=V_{R(M)}=400V \sim 2200V$, $T_{j(m)}=125^{\circ}C$,

$dv/dt \geq 500V/\mu s$

The parameters in the table are the ratings and characteristics of each thyristor chip in module

Suitable for types: MTG, MTY



Three Phase Half Bridge Thyristor Modules(non-isolated type)



TYPE	$V_{R(M)}$ (V)	$I_{R(M)}$ (mA)	$I_{T(AV)}$ (A)	T_C ($^{\circ}C$)	$I_{R(M)}$ (A)	$V_{R(M)}$ (V)	I_T (mA)	$V_{T(O)}$ (V)	I_T (mA)	$V_{T(O)}$ (V)	$R_{th(j-a)}$ ($^{\circ}C/W$)	Fig	Circuit
MTG25	600~2200	≤ 10	25	85	628	≤ 1.3	≤ 100	≤ 2.0	≤ 200	0.90	1.46	8	
MTG40	600~2200	≤ 10	40	85	1005	≤ 1.3	≤ 100	≤ 2.0	≤ 200	0.90	0.91	8	
MTG55	600~2200	≤ 10	55	85	1380	≤ 1.3	≤ 100	≤ 2.0	≤ 200	0.80	0.65	8	
MTG70	600~2200	≤ 15	70	85	1760	≤ 1.3	≤ 100	≤ 2.5	≤ 200	0.80	0.51	8	
MTG90	600~2200	≤ 15	90	85	2260	≤ 1.3	≤ 100	≤ 2.5	≤ 200	0.75	0.40	8, 14	
MTG110	600~2200	≤ 15	110	85	2760	≤ 1.3	≤ 150	≤ 2.5	≤ 200	0.75	0.33	8, 14	
MTG130	600~2200	≤ 20	130	85	3260	≤ 1.3	≤ 150	≤ 2.5	≤ 200	0.80	0.27	8, 14	
MTG150	600~2200	≤ 20	150	80	3770	≤ 1.5	≤ 150	≤ 2.5	≤ 200	0.80	0.26	8, 14	
MTG200	600~2200	≤ 20	200	80	4700	≤ 1.5	≤ 150	≤ 2.5	≤ 200	0.85	0.15	8, 14	
MTG250	600~2200	≤ 30	250	80	5890	≤ 1.5	≤ 200	≤ 2.5	≤ 300	0.85	0.15	See website	
MTG300	600~2200	≤ 30	300	75	7070	≤ 1.6	≤ 200	≤ 3.0	≤ 300	0.85	0.14	See website	