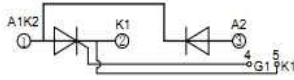
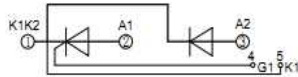


# Fast Turn-off Thyristor & Fast Recovery Diode Modules



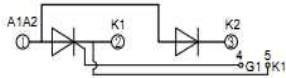
Circuit configuration:Half-Bridge

ITEM	$V_{DRM}/V_{RRM}$		$I_T(AV)$	$I_{TSM}$	$I^2t$	$dv/dt$		$di/dt$		$t_q$	$t_{rr}$	$I_{DRM}/I_{RRM}$	$I_{GT}$	$V_{GT}$	$I_H$	$V_{TM}/I_{TM}$		$V_{TO}$	$r_T$	$R_{th(j-c)}$	$R_{th(c-h)}$	$T_{jm}$	Viso	Out Line No.
	125°C	85°C				125°C	125°C	125°C	125°C							25°C	25°C							
UNIT	V	A	kA	kA <sup>2</sup> s	V/ $\mu$ s	A/ $\mu$ s	$\mu$ s	$\mu$ s	mA	mA	V	mA	V/A	V	m $\cdot\Omega$	°C/W		°C	V(AC)					
MD55THF**	1,100-1,200	55	1.2	120	1000	120	12-25		25	150	2.0	250	2.20/230	0.80	4.2	0.4	0.04	115	2500			115	2500	M02
MD75THF**	800-1,800	75	1.6	13	800	200	40	2	30	150	2.5	200	2.60/225	1.50	4.00	0.20	0.04	125	2,500			125	2,500	M02
MD150THF**	800-1,800	150	3.4	58	800	200	40	3	50	180	2.5	200	2.65/450	1.78	0.70	0.13	0.03	125	2,500			125	2,500	M03
MD182THF**	800-1,800	200	4.8	115	800	200	40	4	50	180	2.5	200	2.65/600	1.65	0.60	0.10	0.04	125	2,500			125	2,500	M03
MD250THF**	800-1,800	250	5.6	157	800	200	40	5	80	200	3.0	200	2.23/900	1.30	0.38	0.10	0.04	125	2,500			125	2,500	M05
MD300THF**	800-1,800	300	7.3	266	800	200	40	5	80	200	3.0	200	2.15/900	1.28	0.30	0.09	0.04	125	2,500			125	2,500	M05
MD400THF**	800-1,800	400	7.8	310	800	200	40	5	100	200	3.0	200	2.40/1,200	1.20	0.47	0.06	0.04	115	3,000			115	3,000	M07
MD70THF**	2,000-2,500	70	1.4	9.8	800	200	40	2	30	180	3.0	200	3.20/300	1.50	4.9	0.23	0.04	125	3,000			125	3,000	M02



Circuit configuration:Cathode Common

ITEM	$V_{DRM}/V_{RRM}$		$I_T(AV)$	$I_{TSM}$	$I^2t$	$dv/dt$		$di/dt$		$t_q$	$t_{rr}$	$I_{DRM}/I_{RRM}$	$I_{GT}$	$V_{GT}$	$I_H$	$V_{TM}/I_{TM}$		$V_{TO}$	$r_T$	$R_{th(j-c)}$	$R_{th(c-h)}$	$T_{jm}$	Viso	Out Line No.
	125°C	85°C				125°C	125°C	125°C	125°C							25°C	125°C							
UNIT	V	A	kA	kA <sup>2</sup> s	V/ $\mu$ s	A/ $\mu$ s	$\mu$ s	$\mu$ s	mA	mA	V	mA	V/A	V	m $\cdot\Omega$	°C/W		°C	V(AC)					
MC75THF**	600-1,800	75	1.6	13	800	200	40	2	30	150	2.5	200	2.60/225	1.50	4.00	0.2	0.04	125	2,500			125	2,500	M02
MC150THF**	600-1,800	150	3.4	58	800	200	40	3	50	180	2.5	200	2.65/450	1.78	0.70	0.13	0.03	125	2,500			125	2,500	M03
MC182THF**	600-1,800	200	4.8	115	800	200	40	4	50	180	2.5	200	2.65/600	1.65	0.60	0.10	0.04	125	2,500			125	2,500	M03
MC250THF**	600-1,800	250	5.6	157	800	200	40	5	80	200	3.0	200	2.23/900	1.30	0.38	0.10	0.04	125	2,500			125	2,500	M05
MC300THF**	600-1,800	300	7.3	266	800	200	40	5	80	200	3.0	200	2.15/900	1.28	0.30	0.09	0.04	125	2,500			125	2,500	M05
MC400THF**	600-1,800	400	7.8	310	800	200	40	5	100	200	3.0	200	2.40/1,200	1.20	0.47	0.06	0.04	115	3,000			115	3,000	M07
MC70THF**	2,000-2,500	70	1.4	9.8	800	200	40	2	30	180	3.0	200	3.20/300	1.50	4.9	0.23	0.04	115	3,000			115	3,000	M02



Circuit configuration:Anode Common

ITEM	$V_{DRM}/V_{RRM}$		$I_T(AV)$	$I_{TSM}$	$I^2t$	$dv/dt$		$di/dt$		$t_q$	$t_{rr}$	$I_{DRM}/I_{RRM}$	$I_{GT}$	$V_{GT}$	$I_H$	$V_{TM}/I_{TM}$		$V_{TO}$	$r_T$	$R_{th(j-c)}$	$R_{th(c-h)}$	$T_{jm}$	Viso	Out Line No.
	125°C	85°C				125°C	125°C	125°C	125°C							25°C	125°C							
UNIT	V	A	kA	kA <sup>2</sup> s	V/ $\mu$ s	A/ $\mu$ s	$\mu$ s	$\mu$ s	mA	mA	V	mA	V/A	V	m $\cdot\Omega$	°C/W		°C	V(AC)					
MR75THF**	600-1,800	75	1.6	13	800	200	40	2	30	150	2.5	200	2.60/225	1.50	4.00	0.2	0.04	125	2,500			125	2,500	M02
MR150THF**	600-1,800	150	3.4	58	800	200	40	3	50	180	2.5	200	2.65/450	1.78	0.70	0.13	0.03	125	2,500			125	2,500	M03
MR182THF**	600-1,800	200	4.8	115	800	200	40	4	50	180	2.5	200	2.65/600	1.65	0.60	0.10	0.04	125	2,500			125	2,500	M03
MR250THF**	600-1,800	250	5.6	157	800	200	40	5	80	200	3.0	200	2.23/900	1.30	0.38	0.10	0.04	125	2,500			125	2,500	M05
MR300THF**	600-1,800	300	7.3	266	800	200	40	5	80	200	3.0	200	2.15/900	1.28	0.30	0.09	0.04	125	2,500			125	2,500	M05
MR400THF**	600-1,800	400	7.8	310	800	200	40	5	100	200	3.0	200	2.40/1,200	1.20	0.47	0.06	0.04	115	3,000			115	3,000	M07
MR70THF**	2,000-2,500	70	1.4	9.8	800	200	40	2	30	180	3.0	200	3.20/300	1.50	4.9	0.23	0.04	115	3,000			115	3,000	M02