

■ HIGH SPEED DIODE MODULES

Type No.		Max. ratings				Electrical characteristics				Connections
		Repetitive peak reverse voltage V_{RRM} (V)	DC current I_{OC} (A)	Surge forward current I_{FSM} (A)	Junction temperature T_J (°C)	Forward voltage drop		Reverse recovery time t_{rr} (μs)	Reverse recovered charge Q_{rr} (μC)	
						I_{FM} (A)	V_{FM} (V)			
RM20HA-12F, 20F, 24F	△	600, 1000, 1200	20 ($T_C = 114^{\circ}\text{C}$)	400	150	20	1.5	0.8	15	
RM25HG-24S	*	1200	25 ($T_C = 80^{\circ}\text{C}$)	500	150	100	4.0	0.3	—	
RM50HA-12F, 20F, 24F	△	600, 1000, 1200	50 ($T_C = 105^{\circ}\text{C}$)	1000	150	50	1.5	0.8	30	
RM50HG-12S	*	600	50 ($T_C = 80^{\circ}\text{C}$)	1000	150	200	4.0	0.2	—	
RM100HA-12F, 20F, 24F	△	600, 1000, 1200	100 ($T_C = 75^{\circ}\text{C}$)	2000	150	100	1.5	0.8	60	
RM200HA-20F, 24F	△	1000, 1200	200 ($T_C = 75^{\circ}\text{C}$)	4000	150	200	1.5	0.8	130	
RM250HA-10F		500	250 ($T_C = 90^{\circ}\text{C}$)	4500	150	250	1.2	0.65	100	
RM300HA-24F	△	1200	300 ($T_C = 75^{\circ}\text{C}$)	3000	150	300	1.5	0.8	80	
RM400HA-20S, 24S		1000, 1200	400 ($T_C = 40^{\circ}\text{C}$)	8000	150	400	2.0	0.4	80	
RM20CA-12F, 20F, 24F		600, 1000, 1200	20 ($T_C = 114^{\circ}\text{C}$)	400	150	20	1.5	0.8	15	
RM50CA-12F, 20F, 24F		600, 1000, 1200	50 ($T_C = 105^{\circ}\text{C}$)	1000	150	50	1.5	0.8	30	
RM100CA-12F, 20F, 24F		600, 1000, 1200	100 ($T_C = 75^{\circ}\text{C}$)	2000	150	100	1.5	0.8	60	
RM20CA-6S, 12S		300, 600	20 ($T_C = 107^{\circ}\text{C}$)	400	150	20	1.8	0.2	0.5	
RM50CA-6S, 12S/20S		300, 600, 1000	50 ($T_C = 96/81^{\circ}\text{C}$)	1000	150	50	1.8/2.3	0.2	1.5	
RM20C1A-12F, 20F, 24F		600, 1000, 1200	20 ($T_C = 114^{\circ}\text{C}$)	400	150	20	1.5	0.8	15	
RM50C1A-12F, 20F, 24F		600, 1000, 1200	50 ($T_C = 105^{\circ}\text{C}$)	1000	150	50	1.5	0.8	30	
RM100C1A-12F, 20F, 24F		600, 1000, 1200	100 ($T_C = 75^{\circ}\text{C}$)	2000	150	100	1.5	0.8	60	
RM20C1A-6S, 12S		300, 600	20 ($T_C = 107/95^{\circ}\text{C}$)	400	150	20	1.8/2.3	0.2	0.5	
RM50C1A-6S, 12S/20S		300, 600, 1000	50 ($T_C = 93^{\circ}\text{C}$)	1000	150	50	1.8	0.2	1.5	
RM20DA-12F, 20F, 24F		600, 1000, 1200	20 ($T_C = 114^{\circ}\text{C}$)	400	150	20	1.5	0.8	15	
RM200DA-20F, 24F		1000, 1200	200 ($T_C = 75^{\circ}\text{C}$)	4000	150	200	1.5	0.8	130	
RM50DA-12F		600	50 ($T_C = 105^{\circ}\text{C}$)	1000	150	50	1.5	0.8	30	
RM20DA-12S		600	20 ($T_C = 93^{\circ}\text{C}$)	400	150	20	1.8	0.2	0.5	
RM50DA-12S		600	50 ($T_C = 93^{\circ}\text{C}$)	1000	150	50	1.8	0.2	1.5	

* : Snubber use for IGBT module and IPM.

75 Primary type No. Similar SR20C-12, -20, -24 (=RM20HA-12F, -20F, -24F)
Similar SR50C-12, -20, -24 (=RM50HA-12F, -20F, -24F)
Similar SR100C-12, -20, -24 (=RM100HA-12F, -20F, -24F)

Similar RM200HC-20 (=RM200HA-20F)
Similar RM300HC-24 (=RM300HA-24F)

IGBT MODULES

Type No.	Max. ratings					Electrical characteristics					Connection form	Connections
	IGBT sections				FWDi sections	IGBT sections			FWDi sections			
	V _{CES} (V)	I _C (A)	P _C (W)	T _J (°C)	I _E (A)	V _{CE} (sat) (V)	t _{on} (μs)	t _{off} (μs)	V _{EC} (V)	t _{rr} (ns)		
CM50E3Y-12E	600	50	250	150	50	3.5	0.45	0.75	2.5	200	D	A.
CM75E3Y-12E	600	75	310	150	75	3.5	0.45	0.75	2.5	200	D	
CM100E3Y-12E	600	100	400	150	100	3.5	0.45	0.75	2.5	200	D	
CM150E3Y-12E	600	150	600	150	150	3.5	1.1	0.95	2.5	200	D	
CM200E3Y-12E	600	200	780	150	200	3.5	1.1	1.05	2.5	200	D	B.
CM300E3Y-12E	600	300	1100	150	300	3.5	1.1	1.15	2.5	200	D	
CM50E3Y-24E	1200	50	400	150	50	4.0	0.3	0.6	2.5	300	D	
CM75E3Y-24E	1200	75	600	150	75	4.0	0.7	0.9	2.5	300	D	
CM100E3Y-24E	1200	100	780	150	100	4.0	0.7	0.9	2.5	300	D	D. For Brake
CM150E3Y-24E	1200	150	1100	150	150	4.0	0.7	0.9	2.5	300	D	
CM200E3Y-24E	1200	200	1500	150	200	4.0	0.95	0.9	2.5	300	D	
CM300HA-12H	600	300	1100	150	300	2.8	0.95	0.65	2.8	110	A	
CM400HA-12H	600	400	1500	150	400	2.8	0.95	0.65	2.8	110	A	D. For Brake
CM600HA-12H	600	600	2100	150	600	2.8	1.05	0.65	2.8	110	A	
CM200HA-24H	1200	200	1500	150	200	3.4	0.65	0.65	3.5	250	A	
CM300HA-24H	1200	300	2100	150	300	3.4	0.75	0.7	3.5	250	A	
CM400HA-24H	1200	400	2800	150	400	3.4	0.8	0.7	3.5	250	A	D. For Brake
CM600HA-24H	1200	600	4100	150	600	3.4	1.0	0.8	3.5	250	A	
CM1000HA-24H	1200	1000	5800	150	1000	3.6	2.1	1.55	3.5	250	A	
CM400HA-28H	1400	400	2800	150	400	4.2	0.8	0.85	3.8	300	A	
CM600HA-28H	1400	600	4100	150	600	4.2	1.05	1.0	3.8	300	A	D. For Brake
CM1000HA-28H	1400	1000	5800	150	1000	4.5	2.8	1.85	4.0	300	A	
CM50DY-12H	600	50	250	150	50	2.8	0.5	0.5	2.8	110	B	
CM75DY-12H	600	75	310	150	75	2.8	0.42	0.5	2.8	110	B	
CM100DY-12H	600	100	400	150	100	2.8	0.42	0.5	2.8	110	B	D. For Brake
CM150DY-12H	600	150	600	150	150	2.8	0.55	0.6	2.8	110	B	
CM200DY-12H	600	200	780	150	200	2.8	0.75	0.6	2.8	110	B	D. For Brake