

■ HIGH SPEED DIODE MODULES

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

* : Snubber use for IGBT module and IPM.

△ 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					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
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
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
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
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
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
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
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

A.

B.

D. For Brake



POWER DEVICES