

Hitachi High-Power IGBT Modules

Status List

Date: Mar. 2002

KS02007

M: Mass production A: Abolition

GR - A Series (Advanced GR Series)

Connection	Type	Absolute Maximum Ratings			Characteristics				Outline	Status
		V _{CE} S	I _C	P _C	V _{CE} (sat)	t _{on}	t _{off}	t _r		
		(V)	(A)	(W)	(V)Typ.	(μs)Max.	(μs)Max.	(μs)Max.		
Single	MBN1200GR12A	1,200	1,200	8,330	2.4	2.1	1.8	0.4	N - 7	M
	MBN600GR12A	1,200	600	3,790	2.2	0.8	1.2	0.35	N - 6	M
	MBN400GR12A	1,200	400	2,500	2.2	0.7	1.1	0.3	N - 5	M
Dual	MBM300GR12A	1,200	300	1,980	2.2	0.7	1.1	0.3	M - 9	M
	MBM200GR12A	1,200	200	1,250	2.2	0.6	1.0	0.3	M - 8	M
	MBM150GR12A	1,200	150	1,000	2.2	0.6	1.0	0.3	M - 8	M
	MBM100GR12A	1,200	100	690	2.2	0.6	1.0	0.3	M - 8	M

GR Series

Connection	Type	Absolute Maximum Ratings			Characteristics				Outline	Status
		V _{CE} S	I _C	P _C	V _{CE} (sat)	t _{on}	t _{off}	t _r		
		(V)	(A)	(W)	(V)Typ.	(μs)Max.	(μs)Max.	(μs)Max.		
Dual	MBM400GR6	600	400	1,170	2.1	0.7	1.1	0.32	M - 3	M
	MBM300GR6	600	300	930	2.1	0.7	1.0	0.32	M - 8	M
	MBM200GR6	600	200	690	2.1	0.7	0.8	0.3	M - 8	M
	MBM150GR6	600	150	520	2.1	0.7	0.8	0.3	M - 8	M

GS Series

Connection	Type	Absolute Maximum Ratings			Characteristics				Outline	Status
		V _{CE} S	I _C	P _C	V _{CE} (sat)	t _{on}	t _{off}	t _r		
		(V)	(A)	(W)	(V)Typ.	(μs)Max.	(μs)Max.	(μs)Max.		
Dual	MBM600GS6CW	600	600	1,700	1.9	0.8	1.1	0.4	M - 7	M
	MBM400GS6AW	600	400	1,000	1.9	0.7	1.1	0.35	M - 1	M
	MBM400JS6AW	600	400	1,470	1.9	0.7	1.1	0.35	M - 3	M
	MBM300GS6AW	600	300	800	1.9	0.7	1.1	0.35	M - 1	M
	MBM200GS6AW	600	200	600	1.9	0.6	0.9	0.35	M - 6	M
	MBM150GS6AW	600	150	450	1.9	0.6	0.9	0.35	M - 6	M
Six - Pack	MBB200GS6AW	600	200	600	1.9	0.6	0.9	0.35	B - 1	M

Status List

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High-Voltage High-Power Series

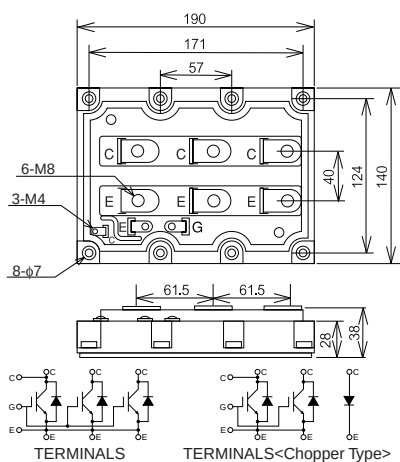
Connection	Type	Absolute Maximum Ratings			Characteristics				Outline	Status
		V _{CES} (V)	I _C (A)	P _C (W)	V _{CE(sat)} (V)Typ.	t _{on} (μs)Max.	t _{off} (μs)Max.	t _f (μs)Max.		
Single	MBN1200D33A	3,300	1,200	12,000	4.1	3.2	5.6	3.2	N - 1	M
	MBN600C33A	3,300	600	5,800	4.5	4.0	6.0	3.2	N - 2	M
	MBN400C33A	3,300	400	4,000	4.5	3.2	5.3	2.8	N - 3	M
	MBN1200D25B	2,500	1,200	12,000	2.9	4.2	6.4	3.2	N - 1	M
	MBN600C20	2,000	600	4,000	4.4	2.5	5.9	2.7	N - 3	M
	MBN400C20	2,000	400	3,000	4.2	2.6	5.9	2.4	N - 4	M
Chopper	MBL800D33B	3,300	800	8,000	4.1	3.3	5.0	2.7	N - 1	M

Abolition

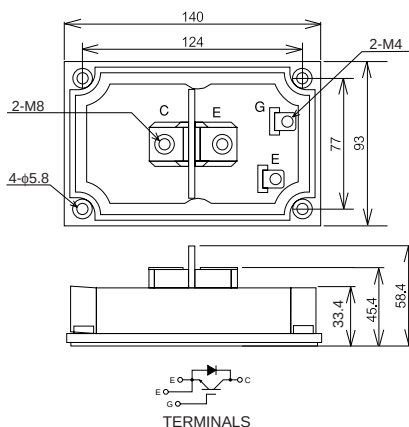
Connection	Type	Absolute Maximum Ratings			Characteristics				Outline	Status
		V _{CES} (V)	I _C (A)	P _C (W)	V _{CE(sat)} (V)Typ.	t _{on} (μs)Max.	t _{off} (μs)Max.	t _f (μs)Max.		
Single	MBN1200GS12AW	1,200	1,200	5,600	2.9	2.2	1.6	0.55	N - 7	A
	MBN600GS12AW	1,200	600	3,100	2.7	0.8	1.2	0.4	N - 6	A
	MBN400GS12AW	1,200	400	2,000	2.7	0.7	1.1	0.35	N - 5	A
	MBN400GS12BW	1,200	400	2,000	2.7	0.7	1.1	0.35	N - 5	A
	MBN300GS12AW	1,200	300	1,700	2.7	0.7	1.1	0.35	N - 5	A
Dual	MBM300GS12AW	1,200	300	1,700	2.7	0.7	1.1	0.35	M - 4	A
	MBM200GS12AW	1,200	200	1,000	2.7	0.55	1.0	0.35	M - 1	A
	MBM200JS12AW	1,200	200	1,470	2.7	0.55	1.0	0.35	M - 3	A
	MBM200JS12EW	1,200	200	1,470	2.7	0.55	1.0	0.35	M - 2	A
	MBM150GS12AW	1,200	150	800	2.7	0.55	1.0	0.35	M - 1	A
	MBM100GS12AW	1,200	100	600	2.7	0.55	0.9	0.35	M - 6	A
	MBM75GS12AW	1,200	75	450	2.7	0.55	0.9	0.35	M - 6	A
Six - Pack	MBB100GS12AW	1,200	100	600	2.7	0.55	0.9	0.35	B - 1	A
	MBB75GS12AW	1,200	75	450	2.7	0.55	0.9	0.35	B - 1	A

Outline

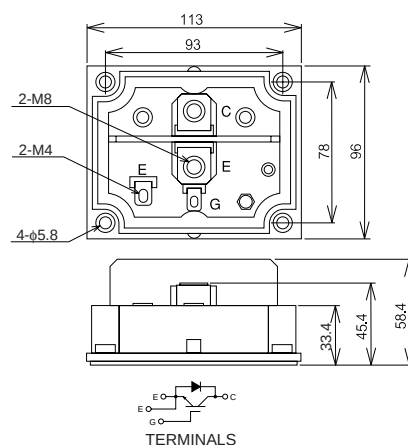
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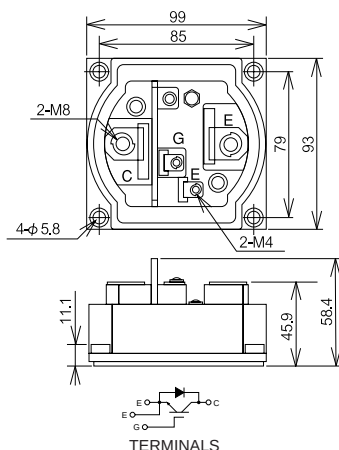
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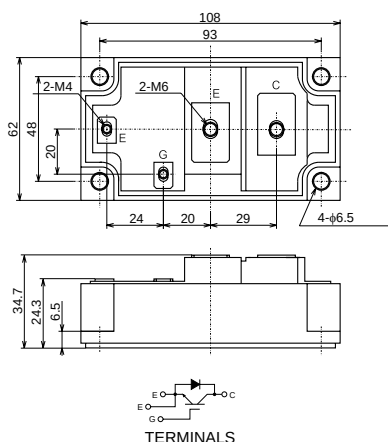
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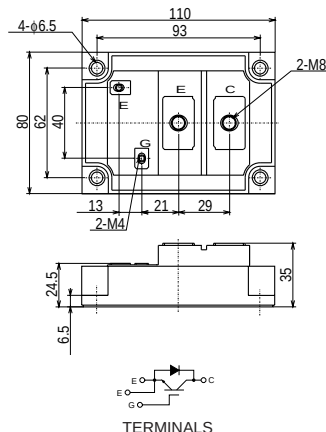
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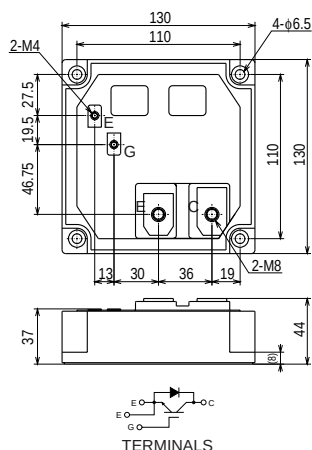
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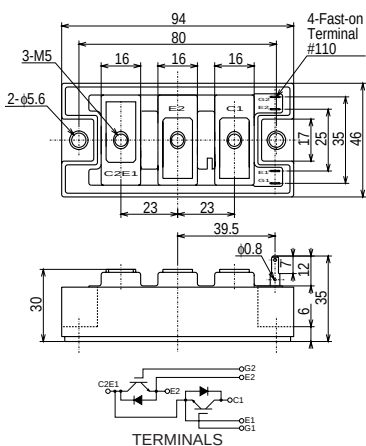
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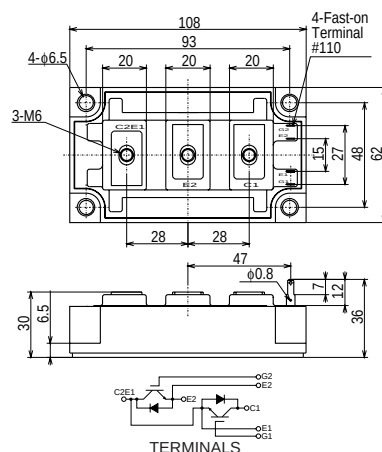
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M - 1



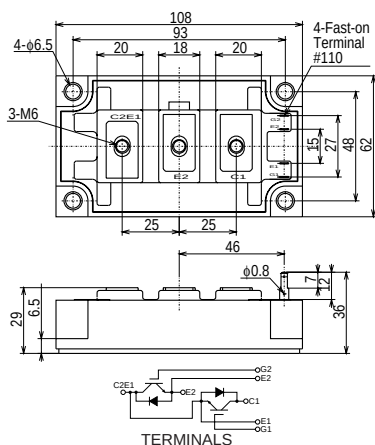
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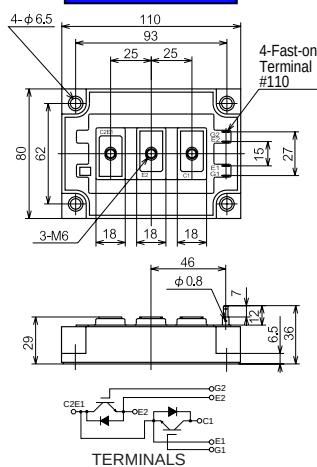
Outline

Continue

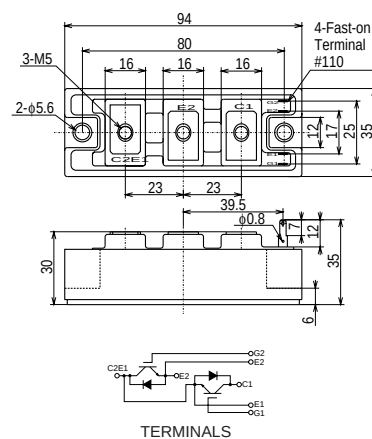
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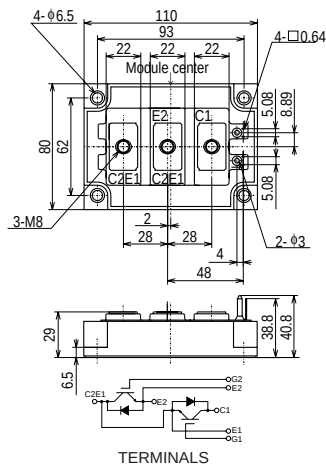
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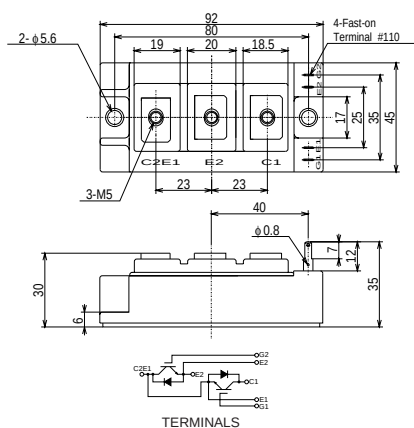
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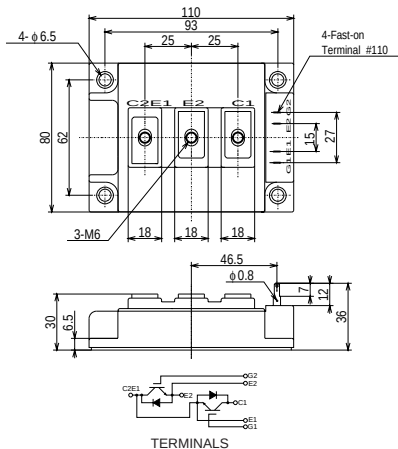
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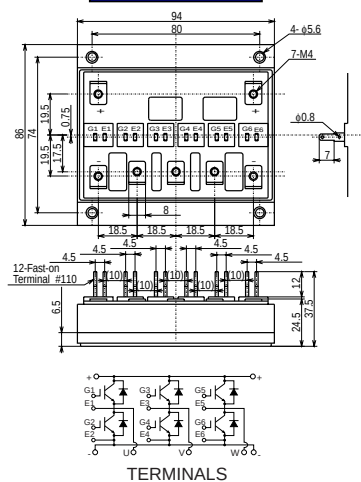
M - 8



M - 9



B - 1



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HITACHI

HITACHI OVERSEAS REPRESENTATIVES

United States of America

Hitachi America, Ltd.
Power & Industrial Division
50 Prospect Avenue Tarrytown, NY 10591
Telephone: <1>(914) 631-0600
Fax : <1>(914) 631-3672

United Kingdom

Hitachi Europe Ltd.
Electric Components Group Northern Europe
Whitebrook Park, Lower Cookham Road, Maidenhead
Barkshira SL6 8YA
Telephone: <44>(1628) 585000
Fax : <44>(1628) 585130

Germany

Hitachi Europe GmbH
Electric Components Group
Central & Southern Europe
Domacher Str. 3, D-85622 Feldkirchen, Munich
(Mailing Address: Postfach 201, D-85619 Feldkirchen, Munich)
Telephone: <49>(89) 99180-0
Fax : <49>(89) 92930 00

Singapore

Hitachi Asia Pte. Ltd.
Division 1, 16 Collyer Quay #20-00
Hitachi Tower, Singapore 0104
Telephone: <65>(538) 6511
Fax : <65>(538) 9011

Taiwan

Hitachi Asia Pte. Ltd.
Taipei Branch Office
5F Hung Kuo Building, No. 167 Tun-Hwa North Road, Taipei(105)
Telephone: <886>(2) 718-3666
Fax : <886>(2) 545-2810

Hong Kong

Hitachi Asia (Hong Kong) Ltd.
7th Floor, North Tower, World Finance Centre
Harbour City, Canton Road, Tsim Sha Tsui, Kowloon
Telephone: <852>27359218
Fax : <852>27356793

Korea

Hitachi Asia (Hong Kong) Ltd.
Seoul Branch Office
18th Floor, Kukje Centre Bldg. 191, 2-KA Hangang-ro
Yongsan-ku, Seoul
Telephone: <82>(2) 796-3115
Fax : <82>(2) 796-2145

Beijing

Hitachi Asia (Hong Kong) Ltd. Beijing Office
Room 1412 Beijing Fortune Bldg.
5 Dong San Huan Bei-Lu, Chao Yang District,
Beijing 100004, China
Telephone: <86>(10) 6590-8851~8854
Fax : <86>(10) 6590-8850

Thailand

Hitachi Asia (Thailand) Co., Ltd.
18th Floor, Ramaland Building
952 Rama IV Road, Bangrak
Bangkok 10500
Telephone: <66>(2) 632-9292
Fax : <66>(2) 632-9299

India

Hitachi India Trading Pvt. Ltd.
Hindustan Times House (10th Floor)
18-20, Kasturba Gandhi Marg., New Delhi-110001
Telephone: <91>(11) 331-5635/3953/3958
Fax : <91>(11) 331-3742

■ For inquiries relating to the product, please contact above overseas representatives or below.

Hitachi, Ltd.

6. Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, 101-8010 Japan
Power Semiconductor Dept. Power & Industrial Systems

TEL: <81>(3) 5295-5146 FAX: <81>(3) 3258-8792
E-Mail: p_device@pis.hitachi.co.jp