



Power Integrated Modules

IGBT Driver

In	Low Loss	Packages	
50A	BSM 50GB60DLC	Half Bridge 34 mm	
75A	BSM 75GB60DLC		
100A	BSM 100GB60DLC		
150A	BSM 150GB60DLC		
200A	BSM 200GB60DLC		
300A	BSM 300GB60DLC	Half Bridge 62 mm	

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	600V	1200V	1600V/1700V	2500V/3300V				

Power Integrated Modules

Sixpack

Half-Bridge

IGBT Driver

In	Low Loss	Packages	
10A	BSM 10GD60DLC	EconoPACK 1	
15A	BSM 15GD60DLC		
20A	BSM 20GD60DLC		
30A	BSM 30GD60DLC	EconoPACK 2 long pin	
50A	BSM 50GD60DLCE3226		
20A	BSM 20GD60DLCE3224		
30A	BSM 30GD60DLCE3224	EconoPACK 2 short pin	
50A	BSM 50GD60DLC		
75A	BSM 75GD60DLC		
100A	BSM 100GD60DLC	EconoPACK 3	
150A	BSM 150GD60DLC		
200A	BSM 200GD60DLC		




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Type Designation


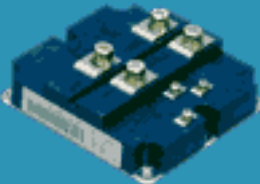

Technical Explanation

$I_n$	Standard	LowLoss	Fast	typical Packages
10A	BSM 10GD120DN2			 EconoPACK 2 long pin
15A	BSM 15GD120DN2			
25A	BSM 25GD120DN2			
35A	BSM 35GD120DN2			
50A	BSM 50GD120DN2 E3226	BSM 50GD120DLC E3226		
10A	BSM 10GD120DN2 E3224			 EconoPACK 2 short pin
15A	BSM 15GD120DN2 E3224	BSM 15GD120DLC E3224		
25A	BSM 25GD120DN2 E3224	BSM 25GD120DLC E3224		
35A	BSM 35GD120DN2 E3224	BSM 35GD120DLC E3224		
50A	BSM 50GD120DN2	BSM 50GD120DLC		
50A	BSM 50GD120DN2G			 EconoPACK 3
75A	BSM 75GD120DN2	BSM 75GD120DLC	FS75R12KS4	
100A	BSM100GD120DN2	BSM100GD120DLC	FS100R12KS4	
300A	FS300R12KF4			 IHM 140x190 mm
400A	FS400R12KF4			

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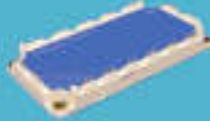

In	Standard	LowLoss	Fast	typicalPackages
25A	BSM25GB120DN2			 <p>Half-Bridge34mm</p>
35A	BSM35GB120DN2	BSM35GB120DLC		
50A	BSM50GB120DN2	BSM50GB120DLC		
75A	BSM75GB120DN2	BSM75GB120DLC		
100A	BSM100GB120DN2K	BSM100GB120DLCK		
100A	BSM100GB120DN2	BSM100GB120DLC	FF100R12KS4	 <p>Half-Bridge62mm</p>
150A	BSM150GB120DN2	BSM150GB120DLC	FF150R12KS4	
200A	BSM200GB120DN2	BSM200GB120DLC	FF200R12KS4	
300A		BSM300GB120DLC		
400A	FF400R12KF4	FF400R12KL4C		 <p>IHM140x130mm</p>
600A	FF600R12KF4	FF600R12KL4C		
800A	FF800R12KF4	FF800R12KL4C		

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Power Integrated Modules	Sixpack	Half-Bridge	Single Switch	Other	IGBT Driver
In	Standard	Low Loss	Fast		typical Packages
200A	BSM200GA120DN2 BSM200GA120DN2S	BSM200GA120DLC BSM200GA120DLCS			
300A	BSM300GA120DN2 BSM300GA120DN2S BSM300GA120DN2E3166	BSM300GA120DLC BSM300GA120DLCS			
400A	BSM400GA120DN2 BSM400GA120DN2S	BSM400GA120DLC BSM400GA120DLCS		FZ400R12KS4	 SingleSwitch62mm S=collectorsense
800A	FZ800R12KF4	FZ800R12KL4C		FZ800R12KS4	
1050A	FZ1050R12KF4				
1200A	FZ1200R12KF4	FZ1200R12KL4C			
1600A	FZ1600R12KF4	FZ1600R12KL4C			
1800A	FZ1800R12KF4	FZ1800R12KL4C			
2400A	FZ2400R12KF4	FZ2400R12KL4C			
					 IHM140x130mm
					 IHM140x190mm

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Chopper				
In	Standard	Low Loss	Fast	typical Packages
25A	BSM25GAL120DN2			 Chopper 34 mm
50A	BSM 50GAL120DN2			
75A	BSM 75GAL/GAR120DN2			
100A	BSM 100GAL/GAR120DN2	BSM 100GAL120DLC K		 Chopper 62 mm
150A	BSM 150GAL/GAR120DN2	BSM 150GAL120DLC		
200A	BSM 200GAL/GAR120DN2	BSM 200GAL120DLC		
		BSM 300GAL120DLC		
		BSM 300GAR120DLC		
400A	FD400R12KF4			 IHM140x130 mm
600A	FD600R12KF4			
Tripack				
In	Standard	Low Loss	Fast	typical Packages
100A	BSM 100GT120DN2			 EconoPACK 3 Tripack
150A	BSM 150GT120DN2	BSM 150GT120DLC		
200A	BSM 200GT120DN2	BSM 200GT120DLC		
4-pack				
In	Standard	Low Loss	Fast	typical Packages
300A	F4-300R12KF4			 IHM140x130mm
400A	F4-400R12KF4		F4-400R12KS4 B2	
Diodes				
In	Standard	Low Loss	Fast	typical Packages
300A	BYM 300A120DN2			 Single Diode 62mm

$I_n$	Standard	Low Loss	Econo III	Packages
50A		BSM 50GD170DL		
75A		BSM 75GD170DL		
300A	FS 300R16KF4			 IHM 140 x 190

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$I_n$

[Standard](#)

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[Packages](#)

50A

[BSM 50GB170DN2](#)

75A

[BSM 75GB170DN2](#)

[Half-Bridge 34](#)



100A

[BSM 100GB170DN2](#)

[BSM 100GB170DL](#)

150A

[BSM 150GB170DN2](#)

[BSM 150GB170DL](#)

200A

[BSM 200GB170DL](#)

[Half-Bridge 62](#)



400A

[FF 400R16KF4](#)

[FF 400R17KF6B2](#)

600A

[FF 600R16KF4](#)

[FF 600R17KF6B2](#)

800A

[FF 800R17KF6B2](#)

[IHM140x130mm](#)



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In	Standard	Low Loss	Packages
200A	BSM 200GA170DN2	BSM 200GA170DL	Single Switch 62
	BSM 200GA170DN2S	BSM 200GA170DLS	
300A	BSM 300GA170DN2	BSM 300GA170DL	Single Switch 62
	BSM 300GA170DN2S	BSM 300GA170DLS	
400A		BSM 400GA170DL	Single Switch 62
		BSM 400GA170DLS	
800A	FZ 800R16KF4	FZ 800R17KF6B2	IHM140x130
1200A	FZ 1200R16KF4	FZ 1200R17KF6B2	
1600A		FZ 1600R17KF6B2	
1800A	FZ 1800R16KF4	FZ 1800R17KF6B2	IHM140x190
2400A		FZ 2400R17KF6B2	





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In	Standard	Low Loss	Packages
<b>Tripack</b>			
100A		BSM 100GT170DL	Econo 3 Tripack 
150A		BSM 150GT170DL	
<b>Chopper</b>			
400A	FD 400R16KF4	FD 400R17KF6B2	IHM140x130mm 
600A	FD 600R16KF4	FD 600R17KF6B2	
800A		FD 800R17KF6B2	
<b>Diodes</b>			
300A	BYM 300A170DN2		Single Diode 62 
600A	BYM 600A170DN2		
400A	DD 400S16K4		IHM140x130mm 
400A	DD 400S17K6B2		
600A	DD 600S16K4		
600A	DD 600S17K6B2		
900A	DD 900S17K6B2		



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In	Standard	typical Packages
200A	FF 200R33KF2	IHM 140 x 73 
400A	FF 400R33KF2	IHM 140 x 130 mm 
500A	FF 500R25KF1	

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In	Standard	typical Packages
800A	FZ 800R33KF1	
	FZ 800R33KF2	
1000A	FZ 1000R25KF1	IHM 140 x 130
1200A	FZ 1200R33KF1	
	FZ 1200R33KF2	
1500A	FZ 1500R25KF1	IHM 140 x 190

click on part-no. to select datasheet - click on other topologies to select menu

In	Standard	Chopper	Diodes	typical Packages
400A	FD 400R33KF2	IHV 140 x 130mm		
800A	FD 800R33KF2			
400A	DD 400S33K2	IHV 140 x 130mm		
800A	DD 800S33K2			
1200A	DD 1200S33K2			

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# IGBT & Diode Modules Type Designation

## IGBT & Diode: BSM modules

BSM	100	GB	120	D	N2	K	
B							Silicon
							Type:
							S=Switch
							Y= Diode
S							Mechanical construction: Module
Y							Max. DC-collector current in A
							Technology: G= IGBT-technology
M							Configuration:
	100						Single switch/ diode
		G					PIM: Power Integrated Module
							Halfbridge
							3 phase full bridge
							Tripack
							Chopper: Diode connected to Collector
		A					Chopper: Diode connected to Emitter
		P					Max. Collector-emitter-voltage in 10 V
		B					With fast internal diode
		D					Low inductance module design
		T					Low Loss IGBT Chip
		AL					2 <sup>nd</sup> generation silicon
		AR					With EmCon-Diode
			120				Construction variation
				D			Construction variation
					N		Collector sense
					L		special type with code no. xxxx
					2		
					C		
						K	
						G	
						S	
						E	

## IGBT& Modules Type Designation IGBT

IGBT & Diode: IHM / IHV & all new eupec modules

FF	800	R	17	K	F	6	D	B2	
FF									Dual Switch
FZ									Single Switch
FS									3 phase full bridge
FP									Power Integrated Modul
F4-									One phase bridge
FD									Chopper config.
DD									Dual Diode
									(for circuit see outline)
	800								Max. DC-collector current in A
		R							Type:
		S							Reverse conducting
			17						Fast diode
				K					Collector-emitter-voltage in 100 V
					F				Mechanical construction: Module
					L				Fast switching IGBT Chip
					S				Low Loss IGBT Chip
					E				fast Short tail IGBT Chip
						1..n			Low Sat & fast IGBT Chip
						C			Internal reference numbers
						D			With EmCon diode
						G			Higher diode current
							B1..n		Module in Big housing
							S1..n		Construction Variation
									Electrical selection