



JMG40PM12P2S1

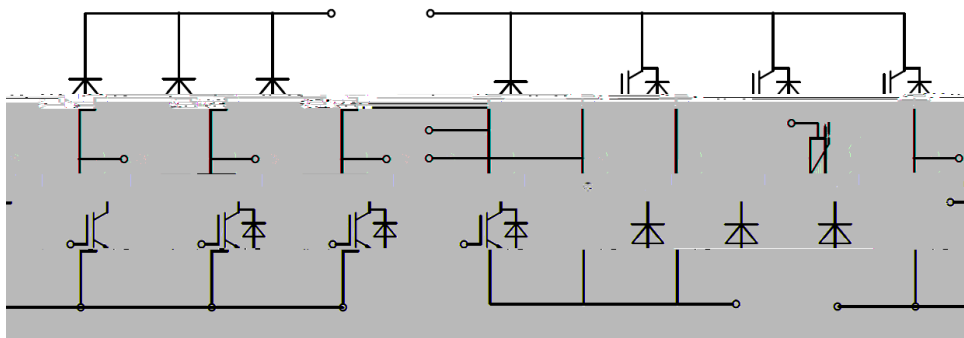
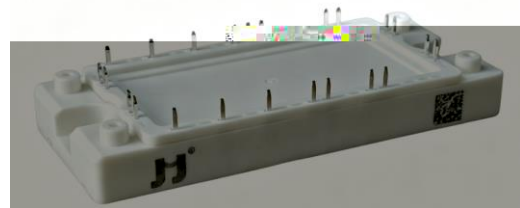
Trench FS IGBT

Features

Product Summary

Parameter	Value	Unit
	-	
	0	
	4	

Applications



IGBT, Inverter Absolute Maximum Ratings

Parameter	Conditions	Symbol	Values	Unit
)	. 1		-	
)				
	- , , (-31		0,	
	-		4,	



IGBT, Inverter Electrical Characteristics . 1

Parameter	Conditions		Symbol	Values			Unit
				Min.	Typ.	Max.	
)	0, (-1	. 1			. , ,	. . 1	
		- . 1			. 1,		
	(, 44,			1 .	1 4	2 0	
)	, (. ,					0, ,	
	- . , , ,					-	
	- (. 1 (. 1 (,				/ , 5		
					, , /		
	)-1 ' -1				, . 3		
) (	2, , (0, (. 3 (-1 (. 1				-40		
(					- / 5		
) (					. 05		
(					13		
)					3 . 0		
)					- 5-		
) (	2, , (0, (. 3 (-1 (. 1				-30		
(					-12		
) (					. 23		
(					- . 0		
)					5 5-		
)					. 1 /		
	- , , -1 , 5, , (- . , , (- . 1				- / ,		
(			)		, 2,	, 3,	K+
				)0,		-1,	



FRED, Inverter Absolute Maximum Ratings . 1

Parameter	Conditions	Symbol	Values	Unit
	. 1		- . , ,	
			/ ,	
	-		2,	
	- , (, (-1, (		. . ,	

FRED, Inverter Electrical Characteristics . 1 + + 54+) , , , , , 4431 ,



Diode, Rectifier Absolute Maximum Ratings . 1

Parameter	Conditions	Symbol	Values	Unit
	. 1		-2, ,	
	4,		1,	
	4,		1,	
	-, (. 1		01,	
	-, (. 1		-, , ,	

Diode, Rectifier Electrical Characteristics . 1

Parameter	Conditions	Symbol	Values	Unit
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IGBT, Brake-Chopper Electrical Characteristics . 1

Parameter	Conditions		Symbol	Values			Unit
				Min.	Typ.	Max.	
)	. 1 (-1	. 1			- 4,	. - ,	
		- . 1			. . 1		
	(, 2/			1 .	1 4	2 0	
)	, (. ,					0, ,	
	- . , , ,					- ,	
	- (. 1 (. 1 (,				. , 4		



FRED, Brake-Chopper Absolute Maximum Ratings . 1

Parameter	Conditions	Symbol	Values	Unit
	. 1		-. . ,	
			-1	
	-		/,	
	-. 1 (- , (,		-2	

FRED, Brake-Chopper Electrical Characteristics . 1

Parameter	Conditions		Symbol	Values			Unit
				Min.	Typ.	Max.	
	= -1 (,	. 1			. . ,	. / ,	
		-. 1			- 2,		
	= -1 (+ -1, + (2, , ()-1	. 1			0 , 3		
		-. 1			3 / 3		
		. 1			, 34		
		-. 1			. - /		
		. 1			, . /		
		-. 1			, 2-		
(			)		- 31	- 5,	K+
				)0,		-1,	



NTC-Thermistor Characteristics . 1

Parameter	Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
	. 1	. 1		1		
- , ,	- , , (- , , 05/	+	)1		1	
	. 1	. 1			. ,	
)	. . 1 . 1#, -+ .) -+. 54(-1	. 1#,		// 31		
)	. . 1 . 1#, -+ .) -+. 54(-1	. 1#,		/ 0 - -		
)	. . 1 . 1+, , -+ .) -+. 54(-1	. 1+, ,		/ 0 / /		

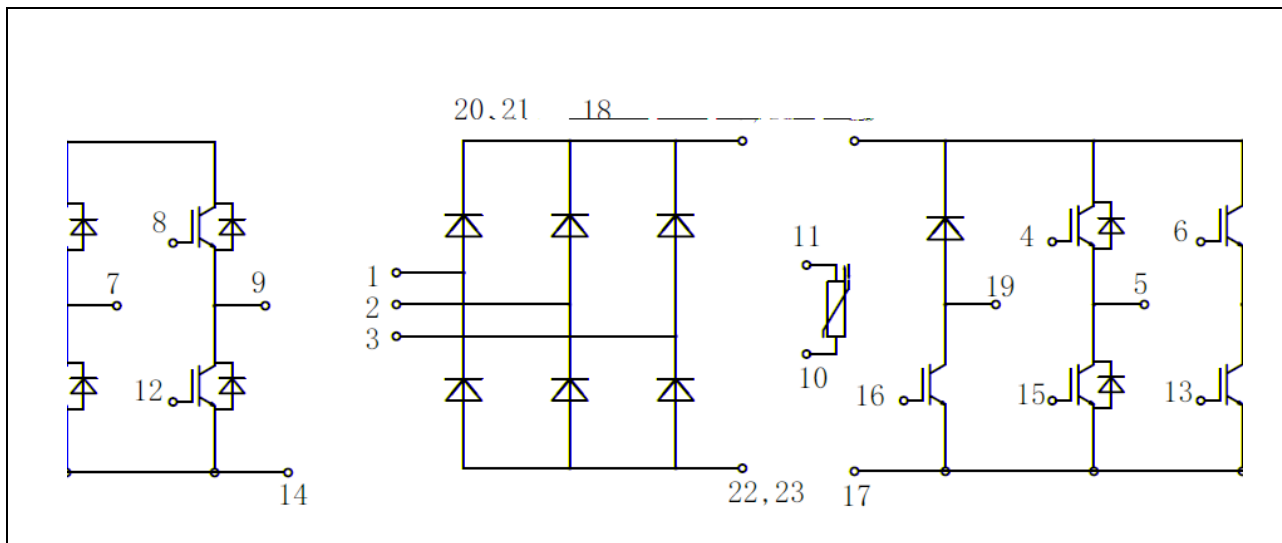
Module Characteristics

Parameter	Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
	(1, (-		. 1			
(		)		, , , 5		+
	()				-31	
					-1,	
				/ ,		
()		.		2		
		.		1		
			)0,		- . 1	
			0,		4,	

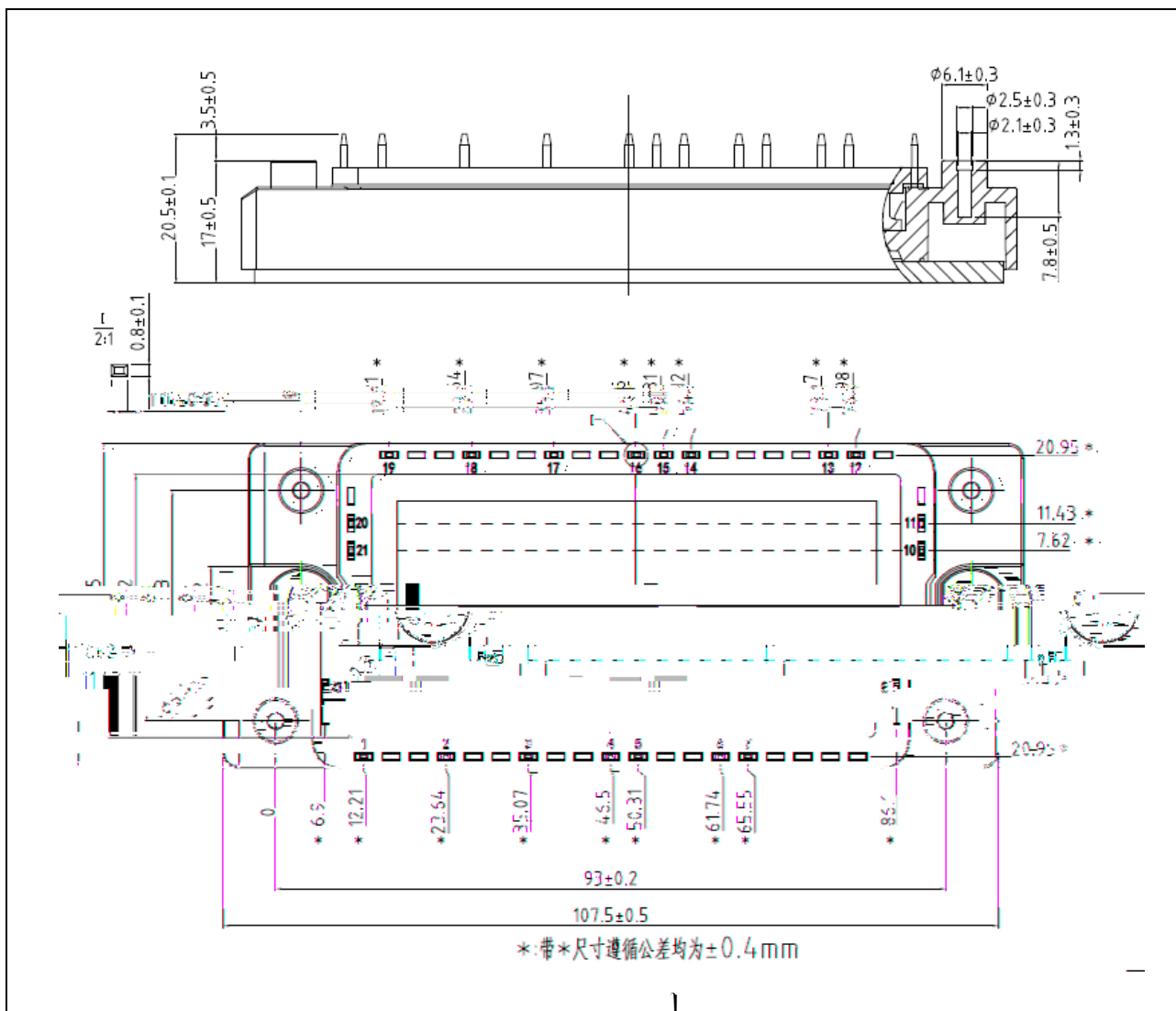
Ordering Information

Device	Marking	Package	Weight	Inner Box	Per Carton
0, - . . . -	0, - . . . -	.	-41 +	-1	31

Circuit Diagram



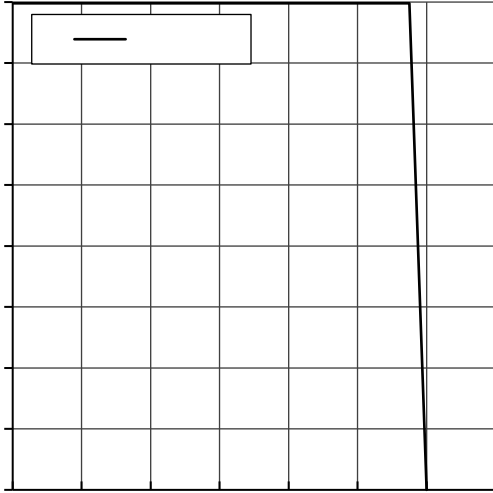
Package Outlines (mm)



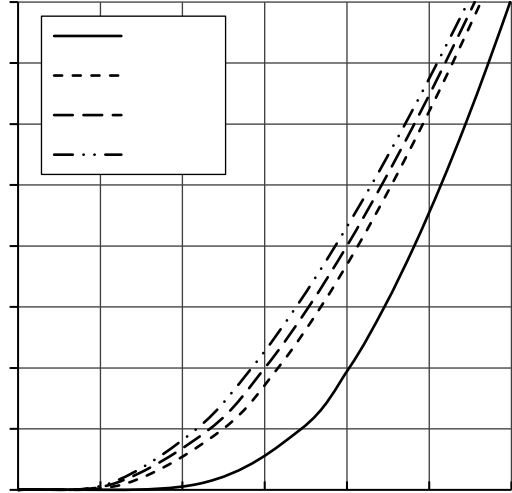


Typical Electrical & Thermal Characteristics

1 (

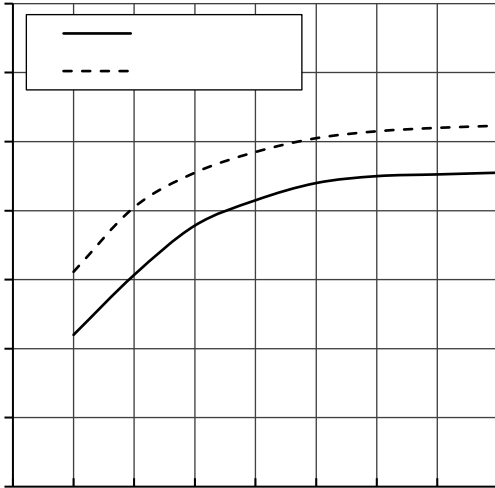


2 (



3 (

. 3 (2,,



4 (

0, (2,,

