



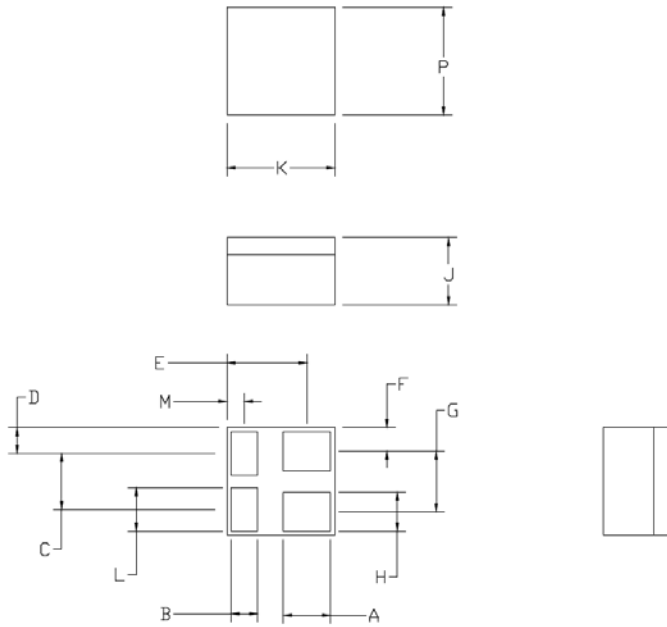
Description

Freebird Semiconductor FSMD-A package has been designed for use with GaN technology. These parts are supplied with no die inside.

I/O Pin Assignment (Bottom View)

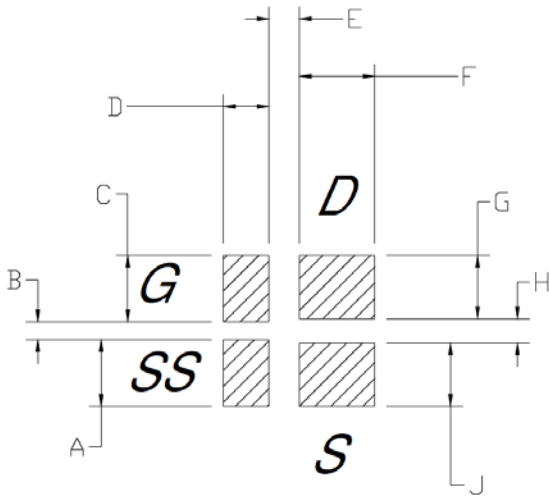
Pin	Symbol	Description	Visual Outline	Physical device
1	G	Gate		
2	D	Drain		
3	SS	Source Sense		
4	S	Source		

PACKAGE OUTLINE AND DIMENSIONS



Symbol	Inches		Millimeters		Note
	Min	Max	Min	Max	
A	0.052	0.062	1.320	1.574	
B	0.027	0.037	0.685	0.939	
C	0.063	0.073	1.600	1.854	
D	0.026	0.036	0.660	0.914	
E	0.092	0.102	2.336	2.590	
F	0.024	0.034	0.609	0.863	
G	0.068	0.078	1.727	1.981	
H	0.042	0.052	1.066	1.320	
J	0.080	0.090	2.032	2.286	Ref. only
K	0.125	0.135	3.175	3.429	
L	0.048	0.058	1.219	1.473	
M	0.016	0.026	0.406	0.664	
P	0.125	0.135	3.175	3.429	

FSMD-A FOOTPRINT FOR PRINTED CIRCUIT BOARD DESIGN



Symbol	Inches		Millimeters		Note
	Min	Max	Min	Max	
A	0.051	0.061	1.295	1.549	
B	0.010	0.020	0.254	0.508	
C	0.051	0.061	1.295	1.549	
D	0.033	0.043	0.838	1.092	
E	0.020	0.030	0.508	0.762	
F	0.058	0.068	1.473	1.727	
G	0.048	0.058	1.219	1.473	
H	0.015	0.025	0.381	0.635	
J	0.048	0.058	1.219	1.473	

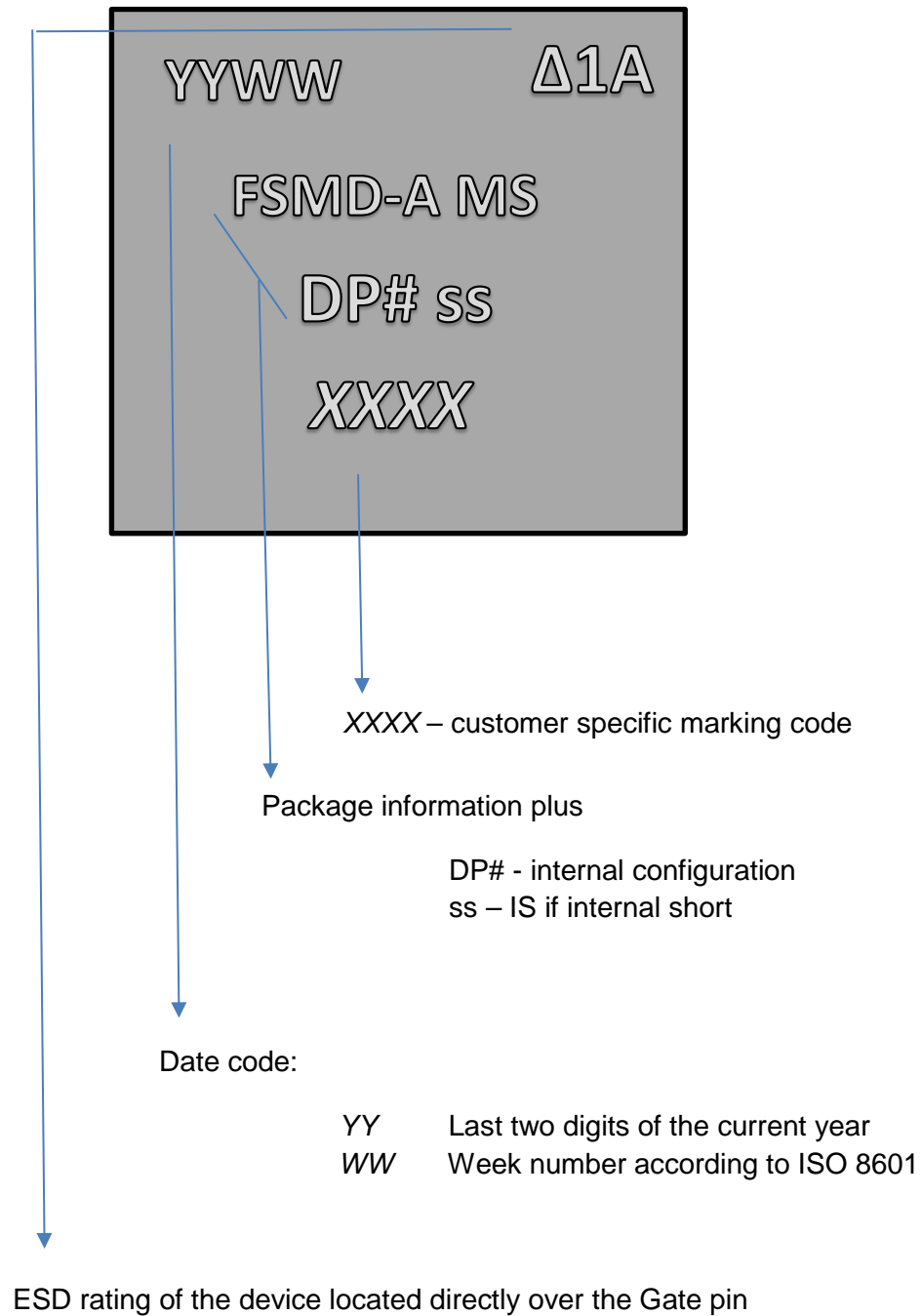
Freebird Semiconductor Part Number Information

PART NUMBERS THAT CAN BE ORDERED	DESCRIPTION	DIAGRAM : bottom view with INTERNAL shorts marked in red	SHIPPING
FSMD-A MS DP#	Standard package with an internal short between S & SS contacts		Waffle trays
FSMD-A MS DP# IS	Standard package with an internal short between S & SS and G & D contacts		

= 2 is relevant for the following products
FBG04N08Ax
FBG10N05Ax

= 4 is relevant for the following products
FBG20N05Ax

Freebird Semiconductor Product Marking Information



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Patents

Freebird Semiconductor holds numerous U.S patent. Any that apply to the product(s) listed in this document are identified by markings on the product(s) or on internal components of the product(s) in accordance with U.S Patent laws

eGaN is a registered trademark of Efficient Power Conversion Corporation, Inc.
Data and specification subject to change without notice.

Revision

Datasheet Revision	Product Status
REV P	Proposal/development
REV Q	Characterization and Qualification
REV 1.0	Production Released

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