

36.07

()	12.16
A ()	2.37
()	438.58
()	50.99/35.66
300	3625
	2722

SAC S1130520010001
zhengbiyu gjzq.com.cn

SAC S1130519100004
zhang_chun gjzq.com.cn

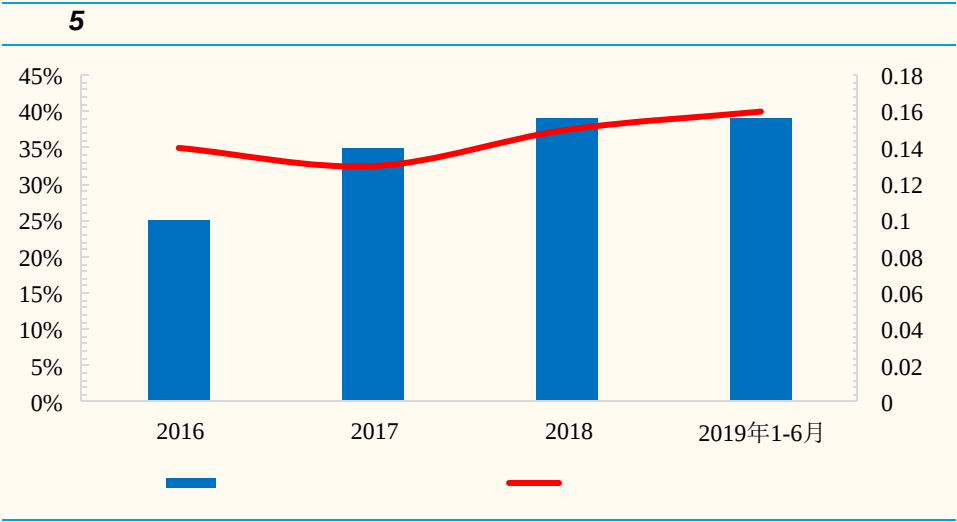
SAC







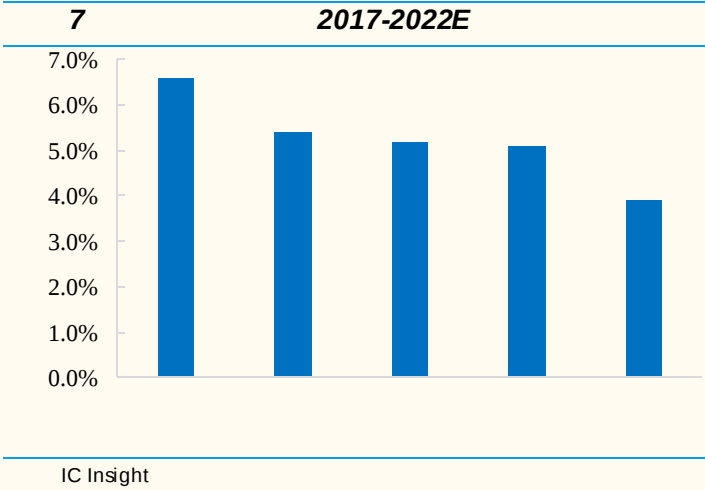
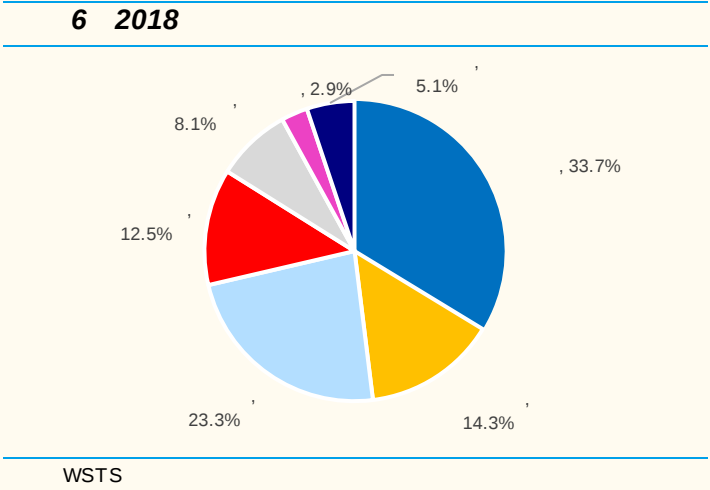
FRD	MOSFET	MOSFET	-100V	1500V
MOS	MOS	MOSFET		MOSFET
				VDMOS
3	MOSFET			
	30V-900V	40V-900V	-60V-150V	-100V-1500V
	MOS	MOS		
	MOS	MOS		
	MOS			
	MOS			
	MOS			



3.

IC

2018 4700 23.3% IC
2018 587 6.6%
2017-2022 33.7%
Insight 12.5% 5.1%

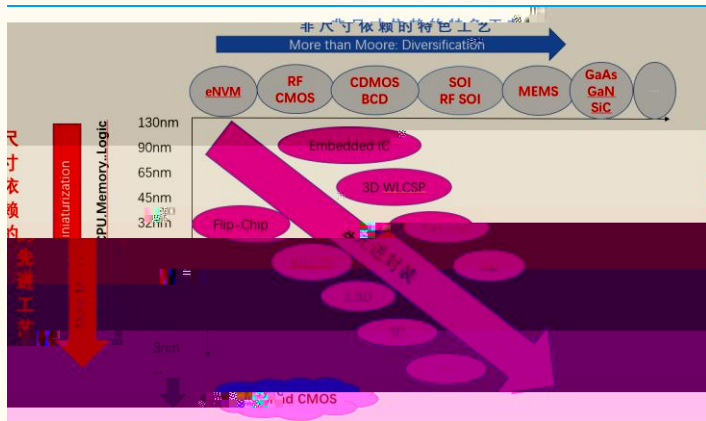


68 / 120 /
130nm 5nm 3nm EUV
MEMS ; IC
SOI BCD/CDMOS MEMS RF-COMS SOI/RF-
2018



238
119
400 /
2019
90%
58
35%
8
50%
1450 /
120 /
37 /
68 /
75 /
38 /
77 ASP

8



9

vs.



8

12

12

8

8

RF-COMS SOI/RF-SOI BCD/CDMOS

8

Hynix

8

8

8

IC

IC
2019

MOSFET
MCU IGBT MOSFET

CIS

92.5%

8

MOSFET

MOSFET

10

MOSFET



4.

2016 2018 34,559 44,742
44,976 7.86% 7.61% 7.17%

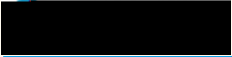


2019 6 30 7937 641 2290
37%

11			

EDA

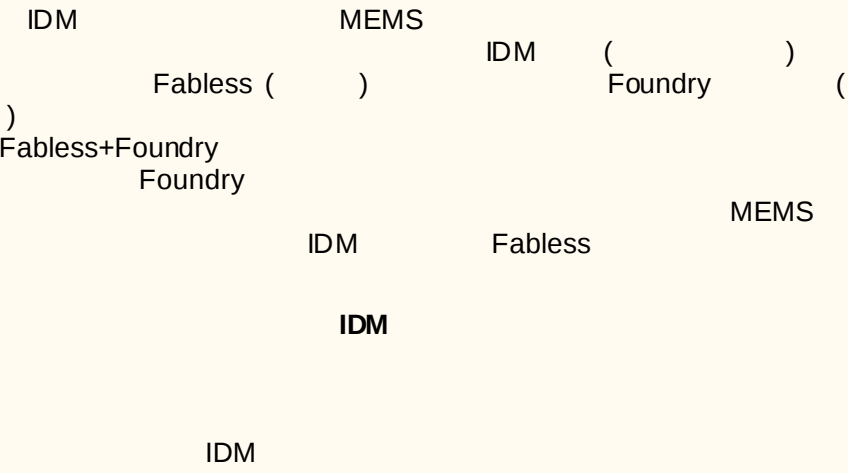
MOSFET IGBT BMS GaN
BCD MEMS

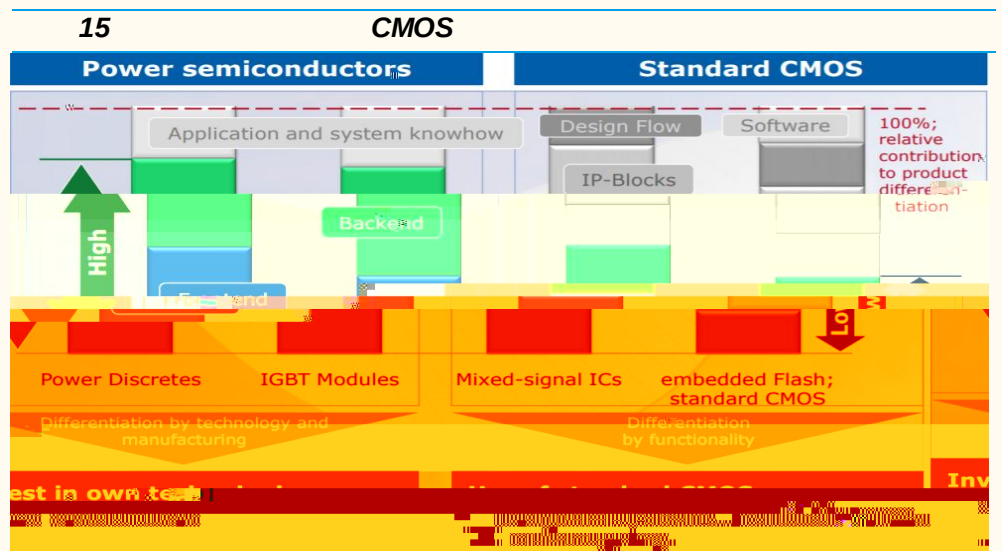


12 2008



1. IDM





IDM

IP
MOSFET
700V BCD G2
IPM

Fabless

IDM
IDM

IDM

VDMOS
600V TRENCH FS IGBT

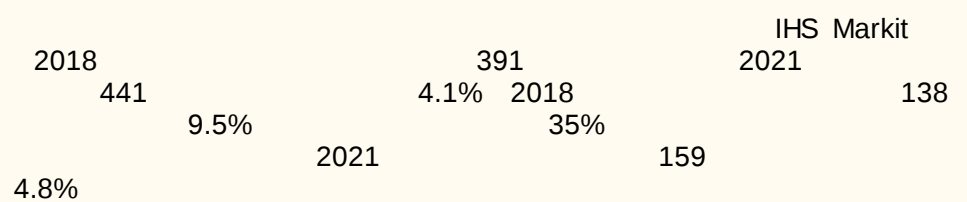
2008
NPT-IGBT
VDMOS

700V BCD
1200V JBS

16

		IDM
		IDM
	IC	IC
	MOSFET	IGBT
		IDM
		IDM
	(NXP)	MOSFET
	MOSFET	IGBT
	IC	SiC
		IDM

2.





17 2016-2021

18 2016-2021

IHS Markit

IHS Markit



20

21



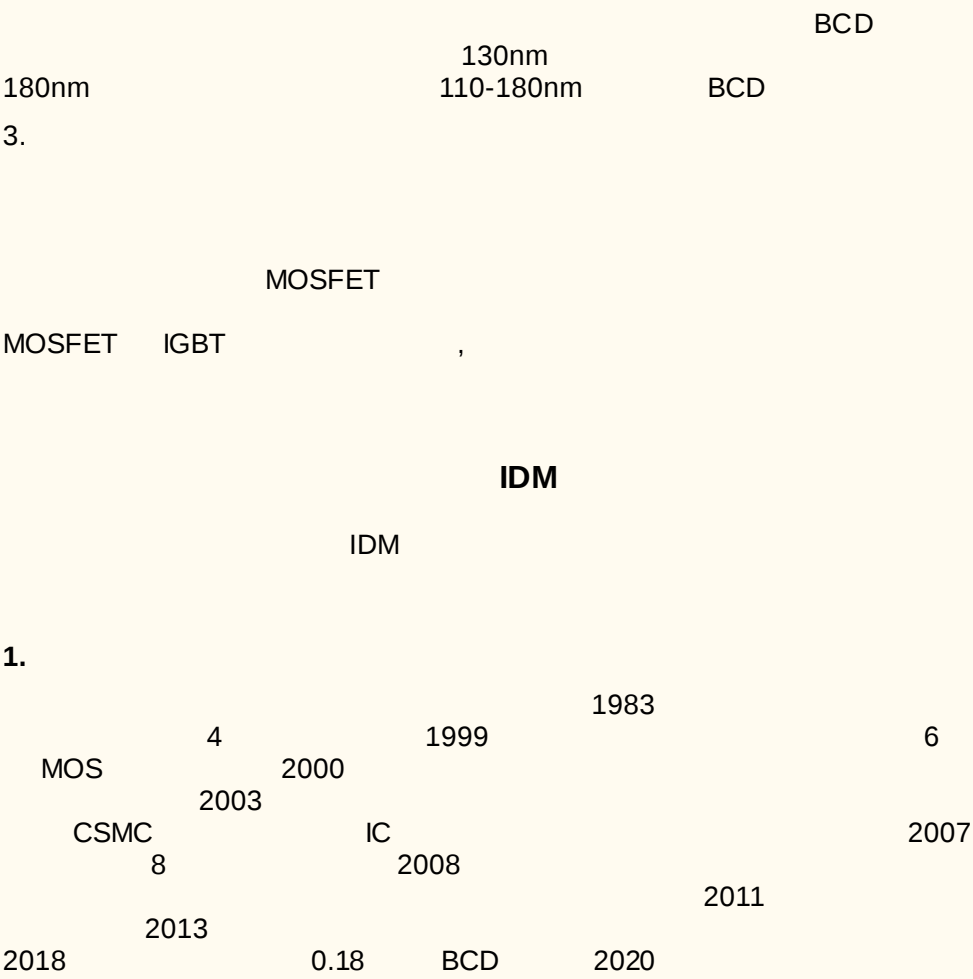
1050



25	GaN	SiC
----	-----	-----

Infineon									
3.	SiC	GaN	100				SiC	GaN	
	IGBT								
	7	IHS	2018 2025	SiC	GaN	100			
	MOSFET		35%	IHS Markit		2018			
				39%	IGBT	43			



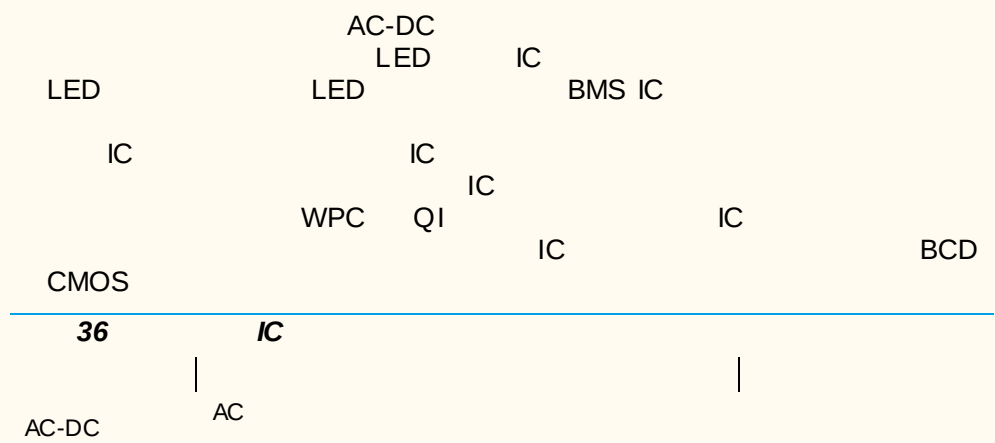




31

2020 2 18







7%4

38					
MCU	MCU	PC	MCU		
MCU	MCU	MCU			
MCU	CPU		8	16	32

2)

0.1-1 247 8 6 1 8 3 6 73 6
IGBT CMOS GaN SiC Bipolar BiCMOS SOI BCD
MEMS
BCD 1 8 MEMS
IC 60

62

2.4

B014



MPS International

2018

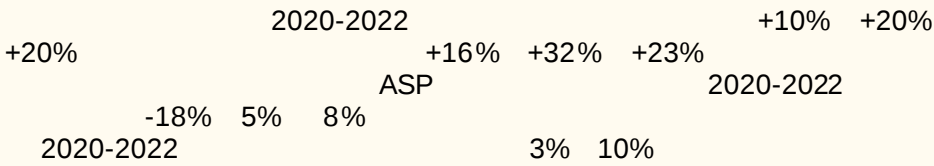
Diodes Incorporated

Diodes
CIRRUS Logic 1984

BOSE

40	2018	
	12,112	4.51%
	8,940	3.33%
	8,649	3.22%
	7,987	2.98%
	7,638	2.85%
	45,326	16.89%

41	2018		





43

2019

2020E





2019-2021



--	--



0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0.00	0.00	0.00	0.00	0.00

			1	
	2		3	4
1.00 =	1.01~2.0=	2.01~3.0=		
3.01~4.0=				

