光大证券
EVERBRIGHT SECURITIES

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1 IDM

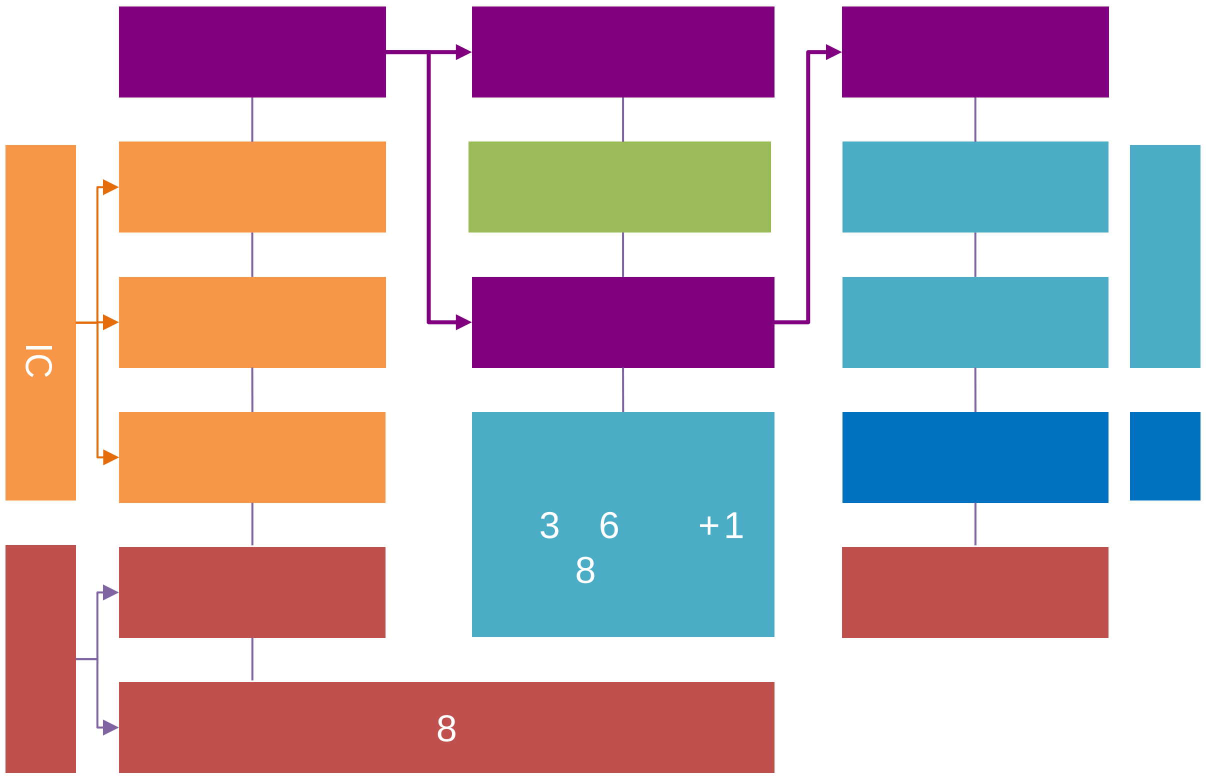
IDM

IDM

IDM

1983	• 4
1988	•
1999	• 6 MOS
2000	•
2003	•
2007	• 8
2008	• (0597.HK)
2009	• 8
2011	•
2013	• 8 4
2014	•
2016	• 8 6
2017	• 52.41%
2018	• 0.18 BCD
2020	•

IDM



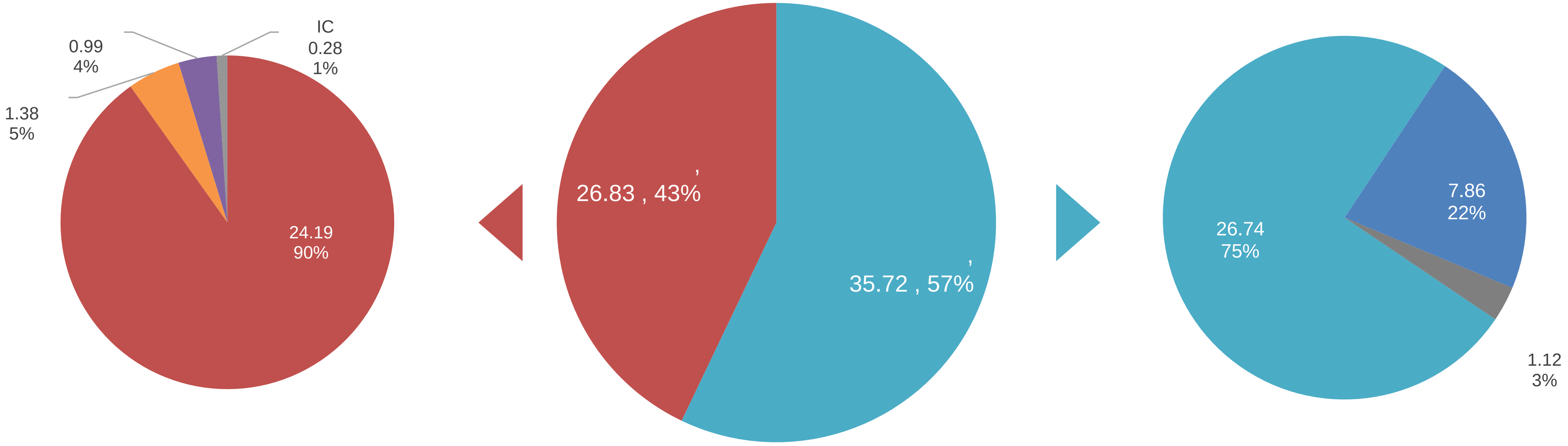
			2018
	3 6	Analog BCD MEMS DMOS Power Discrete	247
	1 8	Advance BCD Analog DMOS	

IDM

IDM

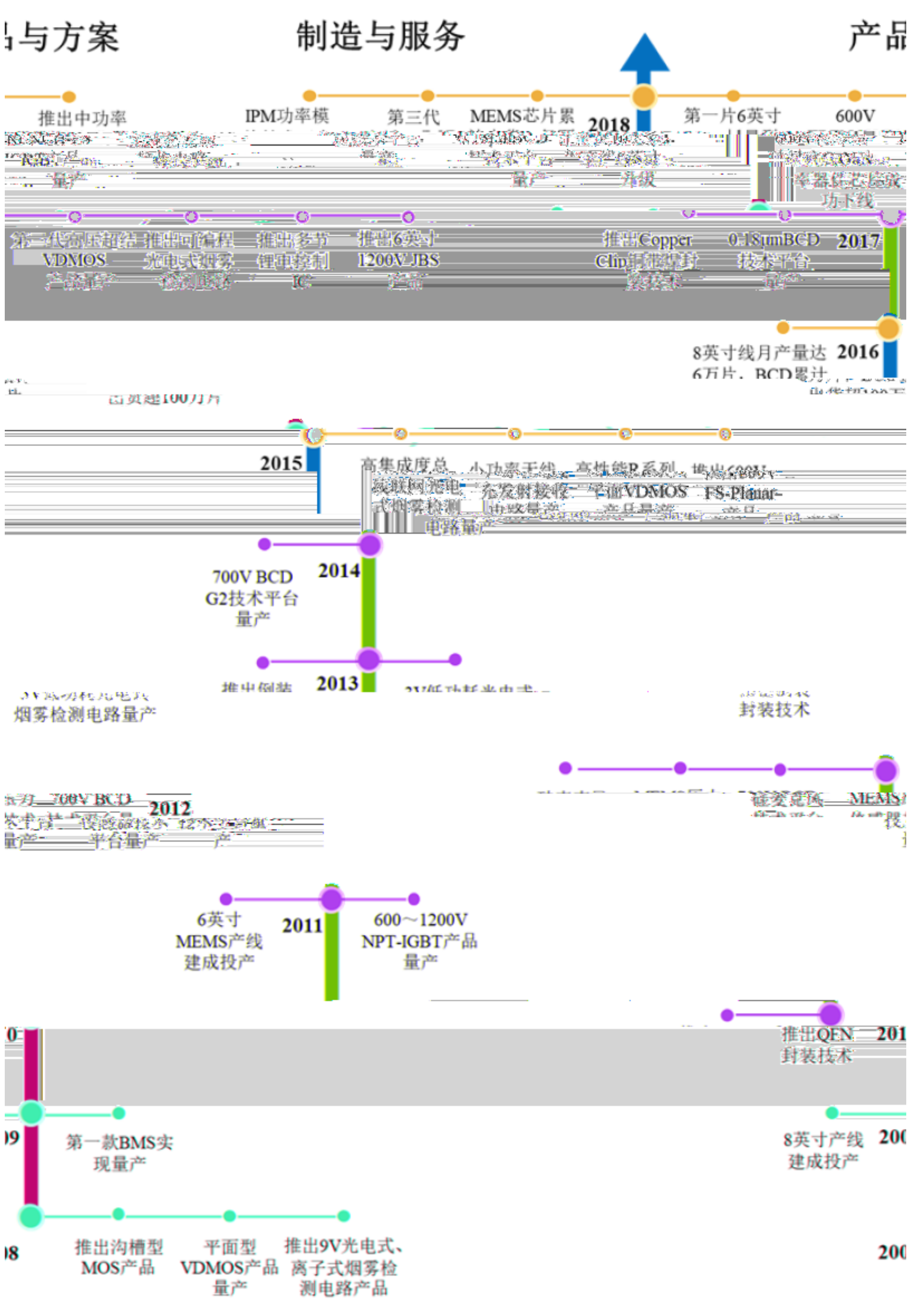
TCL MPS

2018



wind

2008年-2018年公司关键产品与工艺发展情况



1 IDM

MOSFET

IGBT SBD FRD

2

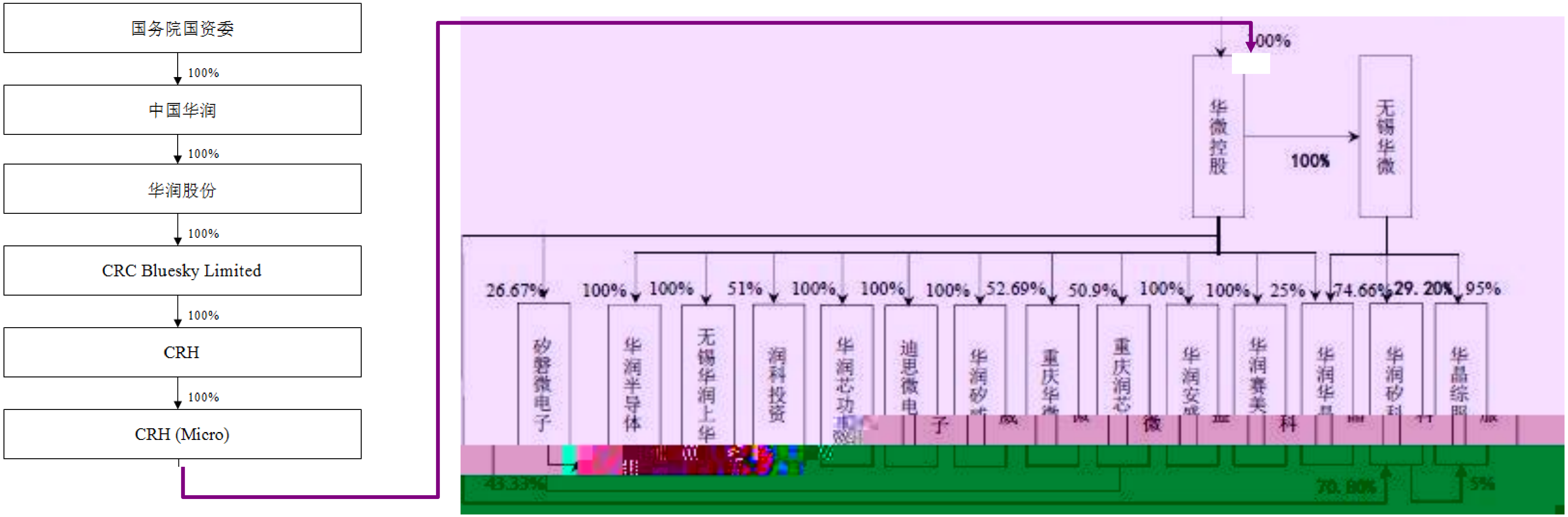
1 8 3 6 1.0-0.11μm
SOI BCD CMOS CMOS Bipolar BiCMOS
IGBT MEMS GaN SiC

1 8 IC
ả ả ả ثي

			2018
	3 6	Analog BCD MEMS DMOS Power Discrete	247
	1 8	Advance BCD Analog DMOS	73
	1 8	MOS MOS MOS SBD	60
			199
		QFP QFN PQFN FC-QFN TSSOP SSOP MSOP IPM	62
			69
			2.4

100%

202001



国务院国资委

100%

中国华润

100%

华润股份

100%

CRC Bluesky Limited

100%

CRH

100%

CRH (Micro)

1

2

3

4

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2

2019Q1-3 41.32 2.70

2019Q1-3 22.38% 8.58%

4.50 36.93%

2019Q1-3 41.32 2.70

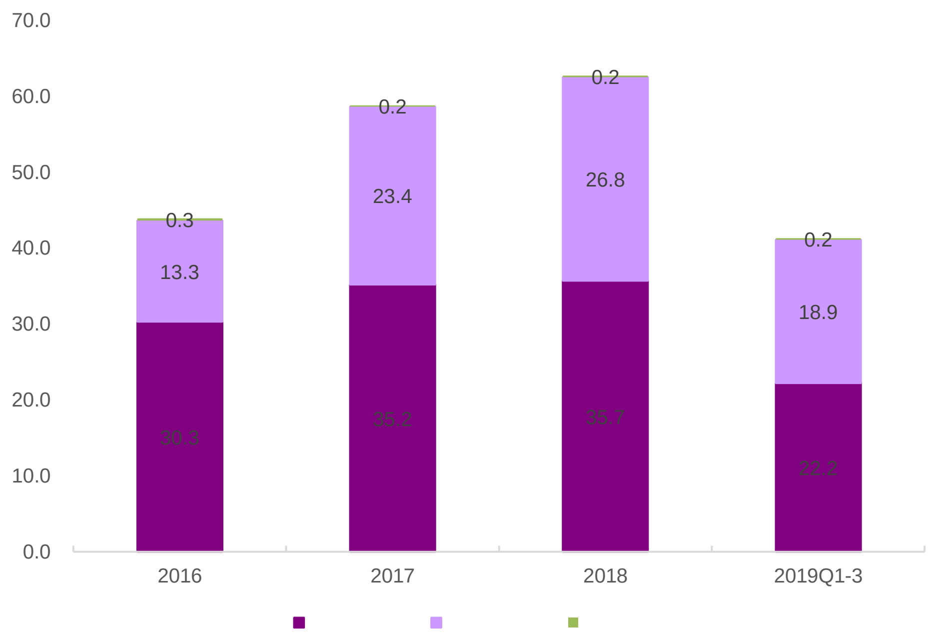
2017

2018 14.73%

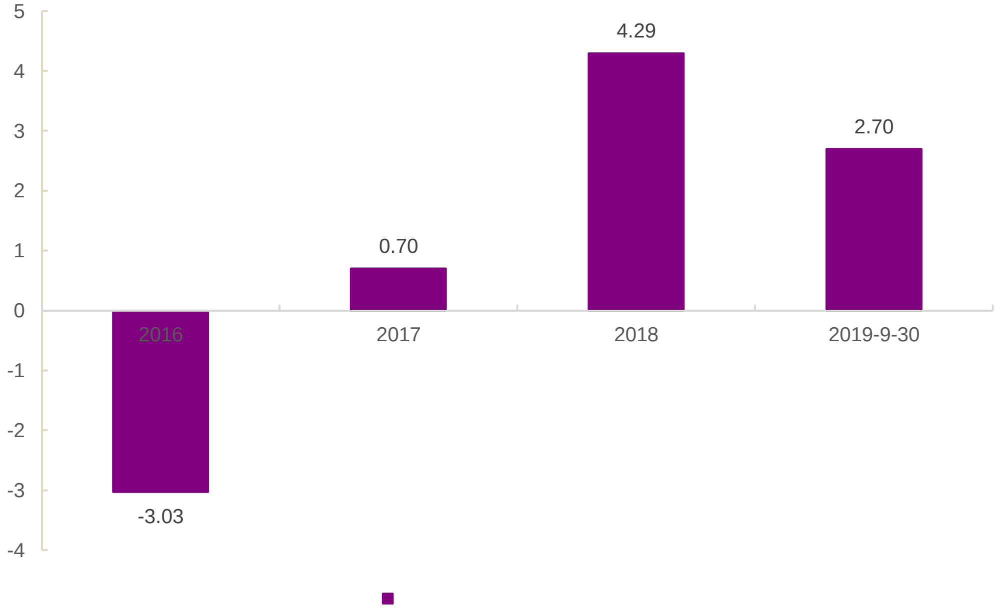
1.48%

2019H1

2019Q1-3 41.32 2.70



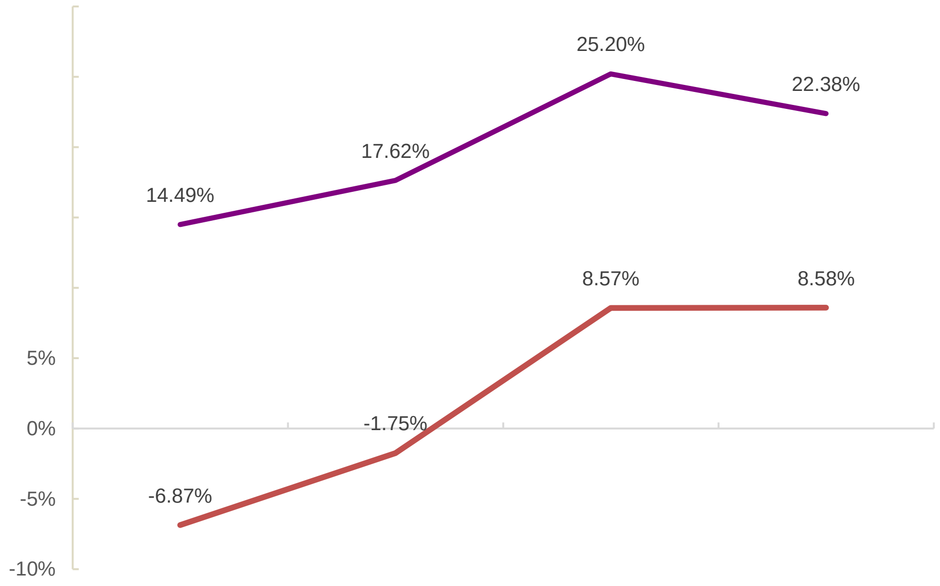
wind



wind

2019Q1-3 22.38% 8.58%

2018 2017
2018 2017 3.49



wind

wind

		2018	2017
	8	184,311.28	180,873.09
	8	397,317.05	387,233.01
	6	149,987.39	150,333.55
	6 1	84,667.33	78,746.57
	6 2	52,562.94	58,083.76
		45,152.93	45,346.07
		119,878.92	111,623.56
		23,639.78	21,216.57
		17,854.81	17,172.57
	8	24.91%	31.23%
	8	19.94%	25.09%
	6	15.52%	15.73%
	6 1	27.25%	27.21%
	6 2	9.61%	12.89%
		23.56%	25.31%
		36.81%	38.12%
		42.09%	44.36%
		33.60%	38.33%
	8	13,409.48	38,832.46
	8	27,620.75	38,700.45
	6	2,957.87	3,549.41
	6 1	4,468.50	4,501.33
	6 2	1,215.46	1,972.54
		2,530.98	2,455.20
		7,873.66	7,103.02
		1,873.14	1,738.79
		1,264.87	1,467.87
		63,214.71	100,321.07

2018 2017
2018
2017 37,106.36
2018 25,422.98
8
2017 2018
11,079.70

2018 2017

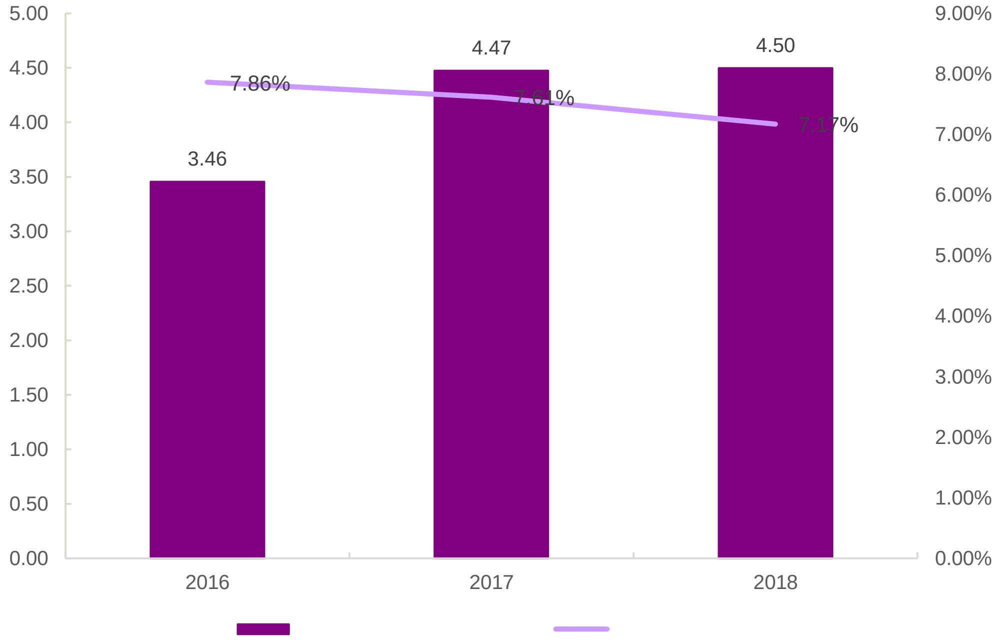
2017

4.50 36.93%

2018 4.50 7.17%

2019 6 30 7,937 641 2,290

36.93%



wind

	641	2290
		IC IC
	“ ” “ ” “ ”	

	2019	2018	2017	2016
	10,637.48	24,362.19	21,114.47	15,596.51
	879	872	796	691
	12.10	27.94	26.53	22.57

2018 80% 20%

IDM

2018 78%

5

2019	1		5,195.50	4.56%
	2		4,738.29	4.16%
	3		3,891.76	3.41%
	4		3,767.30	3.30%
	5		3,696.06	3.24%
			21,288.91	18.67%

wind

2019	1		7,889.40	5.31%
	2	MPS International, Ltd	7,222.97	4.86%
	3		5,149.24	3.46%
	4		5,114.96	3.44%
	5	Diodes Incorporated	4,864.30	3.27%
			30,240.87	20.34%

wind

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3 MOEFET

= + IC

2020 422 153 4%

MOEFET

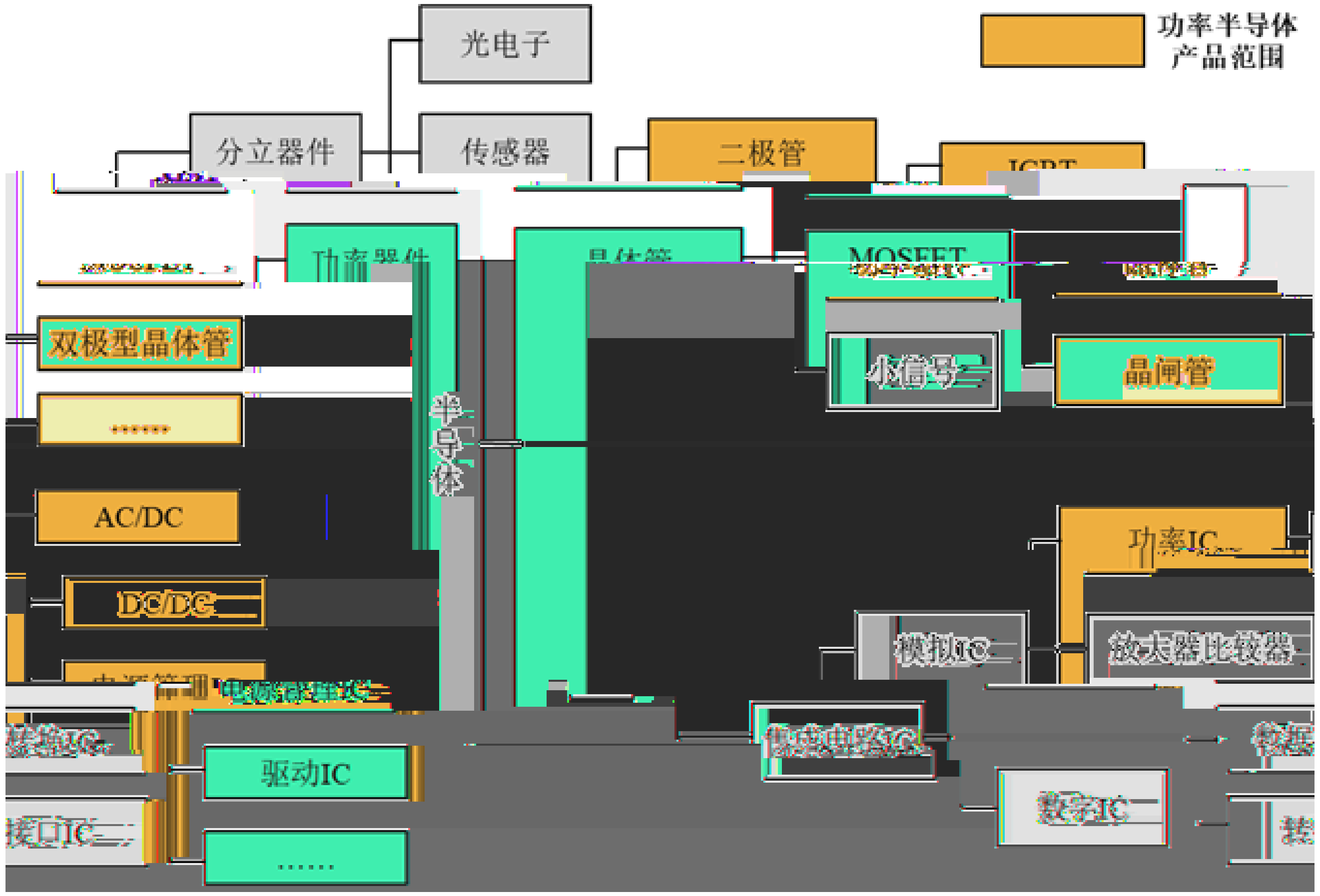
IDM

= + IC

IC

IHS Markit MOSFET IGBT 5

= + IC



2020 422 153 4%

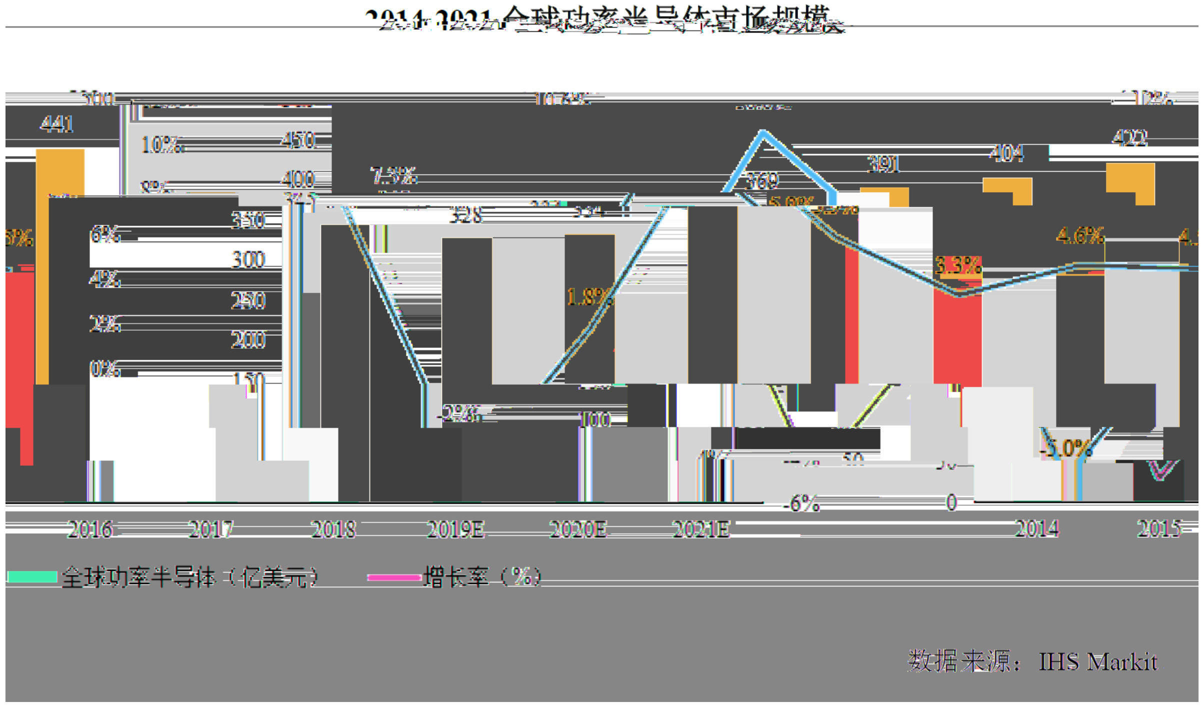
IHS Markit 2018 391 2021

441 4.1%

2018 138 9.5%

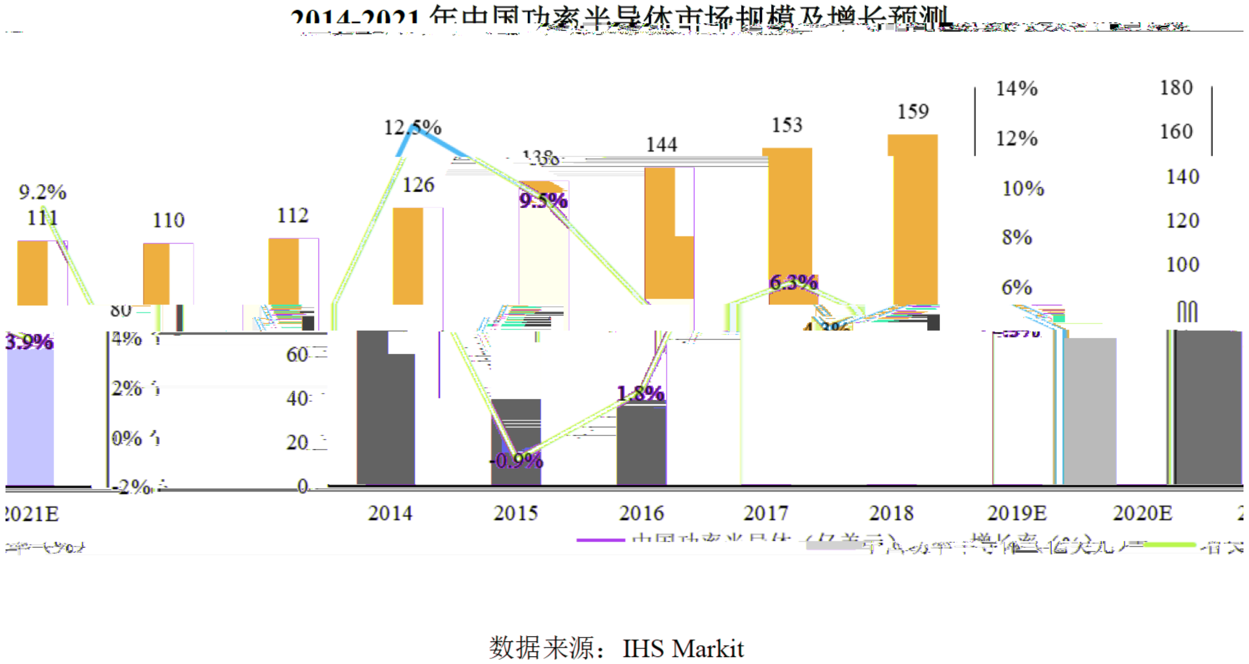
35% 2021

159 4.8%



2014-2021全球功率半导体市场规模

数据来源：IHS Markit



2014-2021年中国功率半导体市场规模及增长预测

数据来源：IHS Markit

MOEFET

MOSFET
MOSFET -100V 1500V
MOSFET MOSFET
MOS VDMOS MOS

IHS Markit MOSFET
MOSFET

2018

		2018 MOSFET	
1		52	28.4%
2		31	16.9%
3		16	8.7%
4		12	6.6%
5		12	6.6%
6		9	4.9%
7		51	27.9%
		183	100%

IHS Markit

IDM

2018

10 10 IDM 2018

2018

		2018	
1		509	
2		248	
3		239	
4		225	
5		111	
6	( )	107	
7		92	
8		66	
9		65	
10		63	IDM

2018

		2018
1		21.7
2		18.5
3		17.1
4		8.1
5		7.7
6		7.2
7		6.9
8		6.0
9		5.4
10		4.9

IDM

2018 IDM
IDM

1,100 500 IC BCD
MEMS IPM

2019 6 30 2,428 282 1,325
1,173 152

“ ”

光大证券
EVERBRIGHT SECURITIES

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8

8

8 BCD 8 MEMS
BCD MEMS 16,000

IC MEMS

50% 20% 30%

1	8	15	50%
2		6	20%
3		3	10%
4		6	20%
		30	100%

光大证券
EVERBRIGHT SECURITIES

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THANKYOU!

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021-52523862

wangjingwei@ebscn.com
0755-34945524

— 6-12 15%

— 6-12 5% 15%

— 6-12 -5% 5%

— 6-12 5% 15%

— 6-12 15%

—

A 300

“ ” 1996

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