



<b>1.</b>				.....	<b>4</b>
1.1	IDM		MOSFET	.....	4
1.2				.....	6
1.3	5%	20%	IPO	.....	8
<b>2.</b>				.....	<b>11</b>
2.1				.....	11
2.2				.....	13
2.3				.....	15
<b>3.</b>				.....	<b>17</b>
3.1	IDM			.....	17
3.2				.....	19
3.3	+			.....	22
<b>4.</b>				.....	<b>24</b>
<b>5.</b>				.....	<b>24</b>

<b>1</b>				.....	<b>4</b>
<b>2</b>	<b>2016-2020</b>			.....	<b>6</b>
<b>3</b>	<b>2016-2020</b>			.....	<b>6</b>
<b>4</b>	<b>2016-2020H1</b>			.....	<b>7</b>
<b>5</b>	<b>2020H1</b>			.....	<b>7</b>
<b>6</b>	<b>2016-2020Q3</b>			.....	<b>7</b>
<b>7</b>	<b>2016-2020Q3</b>			.....	<b>7</b>
<b>8</b>	<b>2016-2020Q3</b>			.....	<b>8</b>
<b>9</b>	<b>2016-2020Q3</b>			.....	<b>8</b>
<b>10</b>				.....	<b>8</b>
<b>11</b>				.....	<b>9</b>
<b>12</b>	<b>2014-2021E</b>			.....	<b>11</b>
<b>13</b>	<b>2019</b>			.....	<b>11</b>
<b>14</b>	<b>2014-2021E</b>			.....	<b>11</b>
<b>15</b>	<b>2019</b>			.....	<b>11</b>
<b>16</b>	<b>2018</b>			.....	<b>12</b>
<b>17</b>				.....	<b>12</b>
<b>18</b>	<b>MOSFET</b>			.....	<b>12</b>
<b>19</b>	<b>IGBT</b>			.....	<b>12</b>
<b>20</b>				.....	<b>13</b>
<b>21</b>	<b>IGBT</b>			.....	<b>13</b>

22	MOSFET	.....	14
23	MOSFET	.....	14
24		.....	15
25		.....	15
26	2020 PC	.....	16
27	5G	.....	16
28	IDM	.....	17
29	2018-2019	.....	19
30	MOSFET IGBT	.....	22
31	2016-2018 MOSFET IGBT	.....	22
32		.....	23
1		.....	5
2		.....	5
3		.....	9
4		.....	16
5		.....	18
6		.....	18
7		.....	20
8		.....	21

# 1.

## 1.1

IDM

MOSFET

4

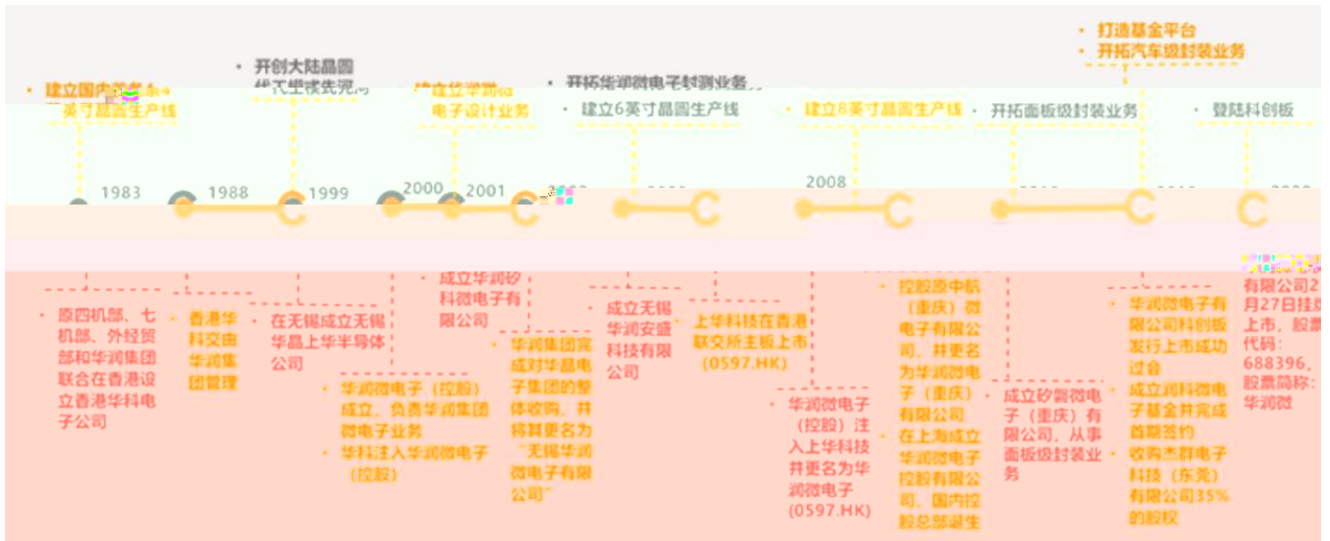
6

2004

2018

IDM  
MOSFET

1



80%

FRD	IC	IC	MOSFET	IGBT	SBD
	IDM				MOSFET
	MOSFET				
	Trench	Trench-FS			
8					
FRD					
IC		IC			
			MOSFET		
			600V-6500V	IGBT	
					SBD
			-100V	1500V	

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1



MOSFET

1	8	MOS	MOS	MOS	SBD	60			
						199			
		QFP	QFN	PQFN	FC-QFN	TSSOP	SSOP	MSOP	62
		IPM							69
									2.4

**15%** MPS International, Ltd Diodes Incorporated

2016-2019  
 13.4% 11.1% 11.1% 11.3%

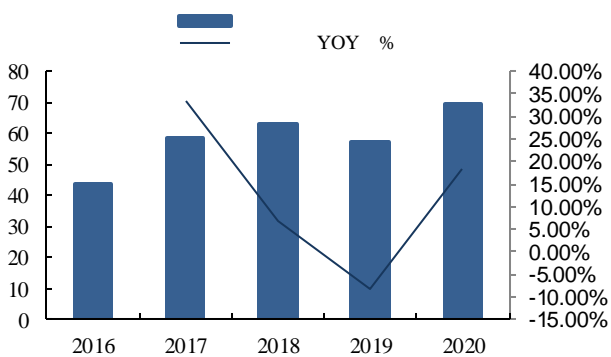
### 1.2

**19** 2016-2018 43.97 58.76 62.71 57.43 8.42%

**20** 2019 19.42% 2019 2019 5G AI VR/AR

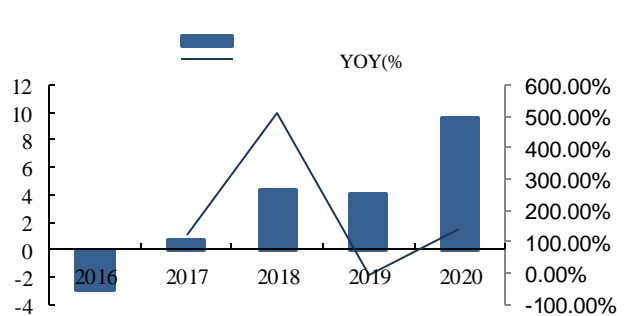
**20** 2020 69.77 21.49% 9.60 139.66%

2 2016-2020



wind

3 2016-2020



wind

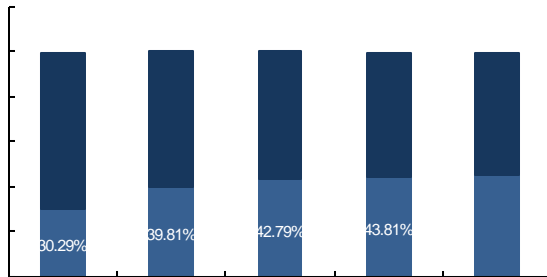
2016 30.00% 20 44.70%

2020 IC IC

34.37%

4 2016-2020H1

5 2020H1



wind

wind

2016 9.91% 2016-2020Q3 2019 17.76%

2019 29.48% 14.49% 17.62% 25.20% 22.84% 28.13%

13.6% 2016- 2018

2016-2020Q3

16.9% 16.1% 15.2% 17.5% 2019

2020

6 2016-2020Q3

7 2016-2020Q3

wind

wind

4.50 4.83 3.71 2016-2018

20 50%

2016-2020Q3 3.46 4.47 7.86% 7.61% 7.17 8.40% 7.59% 7% 19





11

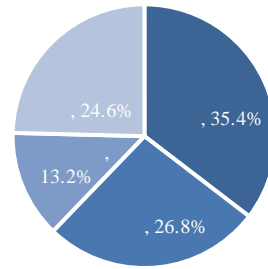
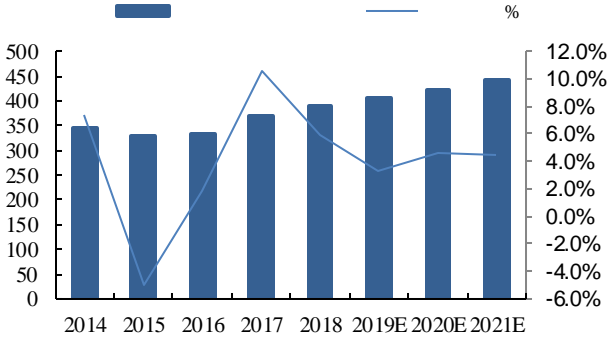
IPO



## 2.

### 2.1

IHS Markit 2019 441 2016-2019  
 404 2018 3.3% 2021  
 6.5%  
 35.4% 26.8% 2019 13.2%  
**12 2014-2021E** **13 2019**



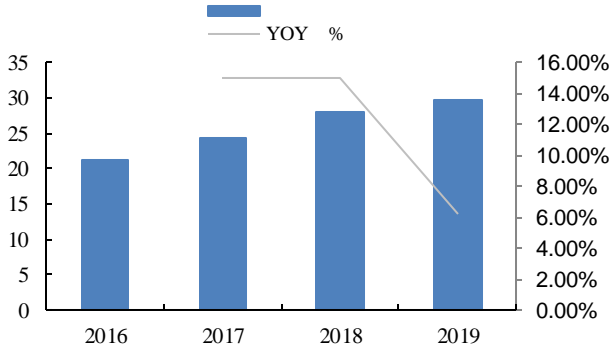
IHS Markit

IHS Markit 2019 159  
 2016-2019 35.6% 144 2018 4.3% 2021  
 8.7%  
 27.4% 23.1%  
 IC MOSFET IGBT IHS Markit 2018  
 IC 61% 34%  
 39%

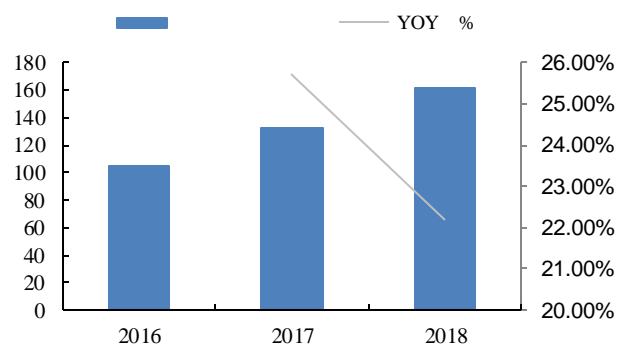
### 14 2014-2021E

### 15 2019





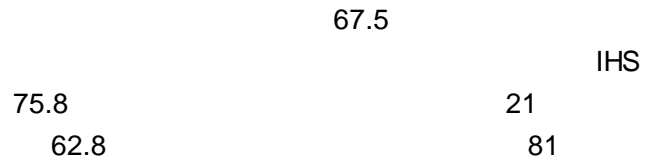
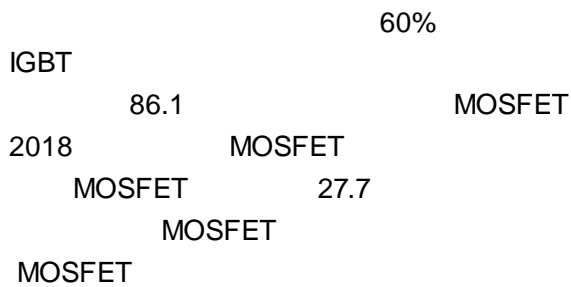
IHS Markit



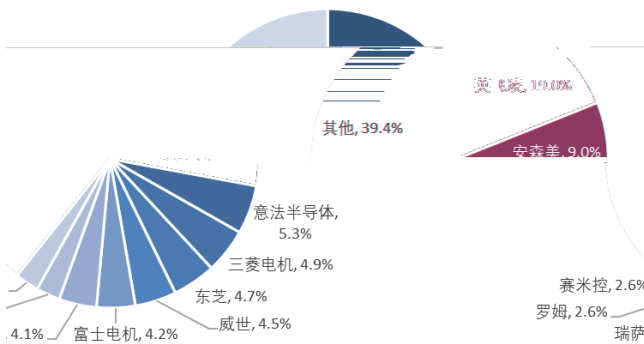
2.2

MOSFET

IHS Markit

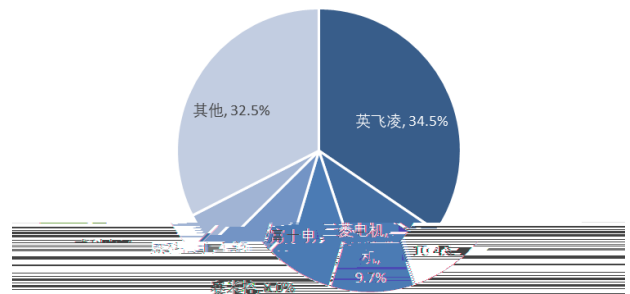


20



IHS Markit

21 IGBT



IHS Markit

22 MOSFET

23 MOSFET

IHS Markit

IHS Markit

1999 2000  
2020 4 16  
2700 2020

1999  
2020 9 30 85

Chua Chee Seong  
Chua

LED

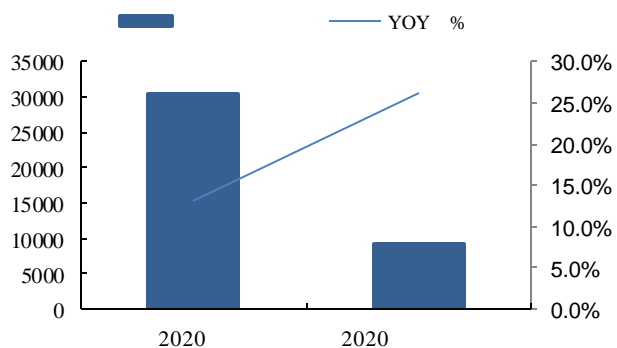
2.14

LED (LFM) 230

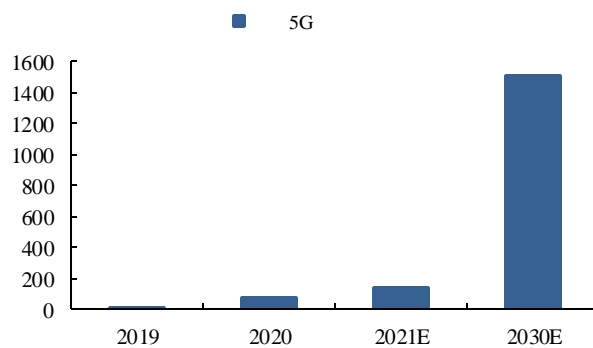
1999  
2019 2020 12 55.18

## 2.3

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**26 2020 PC**


IDC

**27 5G**


2020 11

40%

4

/				
		5.31	0.32	4.75%
		1.9		
		13	2.24	23.24%
8		15	5.56	13.24%
	12	100		
8		40	12.77	160.83%
	8	15	6.09	20.26%
	8	7.5		
	8	2.2		
	IGBT	2.5	0.43	16.54%
	IPM	2.2		



### 3.

#### 3.1

IDM

IDM

IDM

IDM

2020

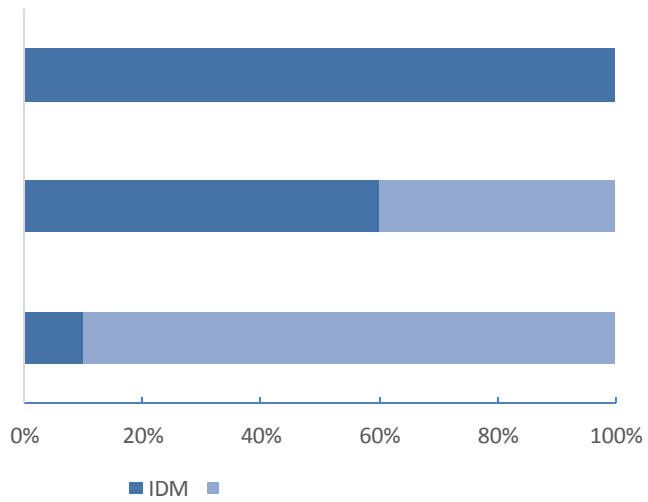
IDM

2018

IDM

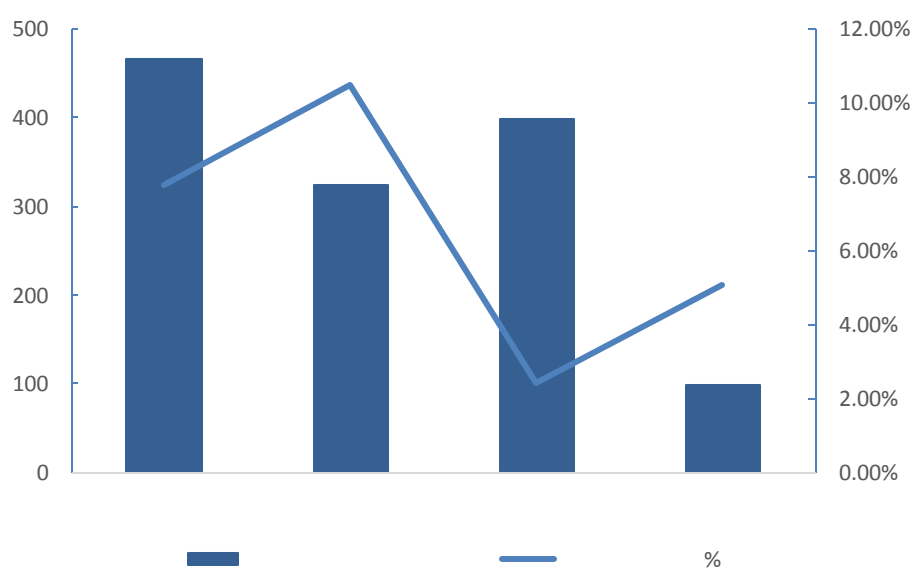
IDM

28 IDM









wind

	IPM	SBD	BCD	MEMS
3	9			6
	247 / 8		133 /	
	2019 6 30		2428	282
	1325	1173	152	

7




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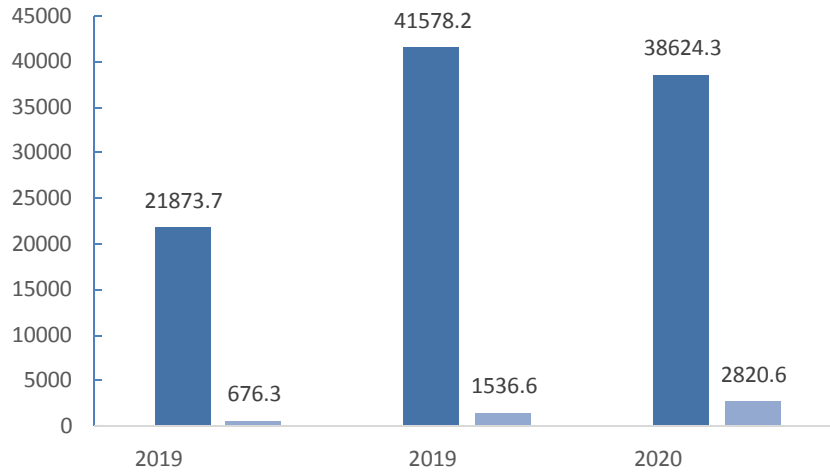
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2019 200 1800  
 2020 76.6% 317.1%

32



50

12

4.

2020-2022		9.60	14.75	18.36	EPS	0.79	1.21	1.51
2020-2022	PE	76	49	40				

5.

1.

5G

2.

IPO

3.





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2020 Wind 2018/2019 TMT 2020 / 2018  
II

2019

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2019

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