1.
40%+ 4
1.1. 4
1.2. 6
1.3. IDM
40%+7
2. 9
2.1. IGBT 10
2.2. SiC SiC MOSFET GaN .. 12
2.3. IOT 15
3. 12 18
4. 19
5. 20
6. 20

1.

40%+

1

2

3 IDM

IDM

IDM

IDM

100%

40%+

1.1.

[illegible]

58%

IDM 100%

40%+

7 **40%+**

1

2

3 2019 2019

2019H1

2.

IGBT

1 **MOS** **IGBT**

IDM a

b

c

2.1. IGBT

IGBT

IGBT **IGBT**

IGBT Trench-FS

IGBT IGBT IGBT

IGBT

8 **IGBT** **IGBT** **6**

8 **IGBT**

IGBT

8 IGBT

IGBT

IGBT

IGBT

76 21

2 82 53

600V-6500V IGBT

4 IGBT

<600V	/
650V	/ /
1200V	/ / / / /
1700V	/
3300V	/ /
4500V	
6500V	/ / /

IGBT

IPM

MOSFET

IGBT **IPM**

IPM

IPM MOSFET IPM

IGBT IPM

MOSFET

IPM IGBT

600V 15A 2019

IPM

MOSFET IPM 500V 5A

IGBT IPM 600V

15A

1200V IPM IC

5: IPM

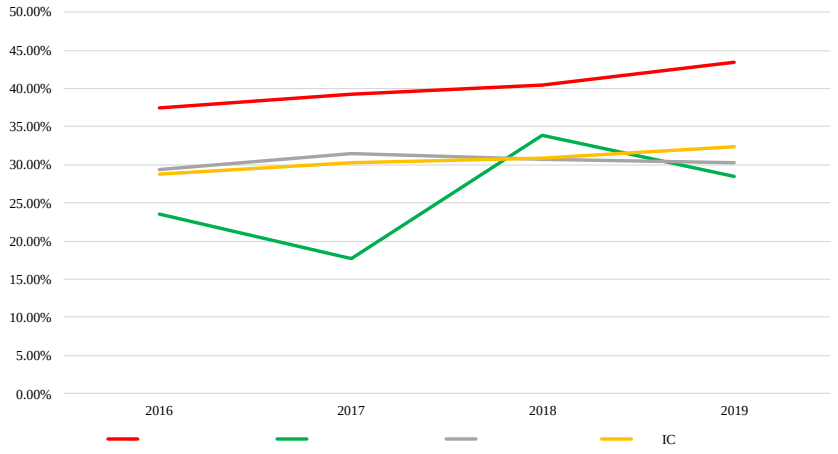
CS5755MT	IPM	5A/500V	MOSFET
CS5753AT	IPM	3A/500V	MOSFET
DPM31560	IPM	15A/600V	IGBT

5G

YÜM

[51 scn /De2iceGray CS54086 Nelat ô l ÿ W !

15 IDM



Wind

IDM

MEMS

MEMS

IDM Yole Development 2017

MEMS IDM

MEMS 6 8

23.1

8 BCD/MEMS BCD MEMS

1.6 MEMS 6 8 2019

8 MEMS

3

6 8

5G

Gartner 2014

37.5 2020 250 137.2%

3,000 MCU

60%-70%

IC MEMS Sensor Hub IC

16	**2014-2020**	**CAGR=137.2%**

Gartner

Yole

3. 12

12

12

12

1 12 8

2.25 12

8 2.25 **2** 12

%	14.00%	28.46%	10.04%	-	-	-
	5875.59	**6270.80**	**5742.78**	**6440.23**	**7406.26**	**8887.52**

%