
26	
27	
28	

1.

IDM

IDM

1.1.

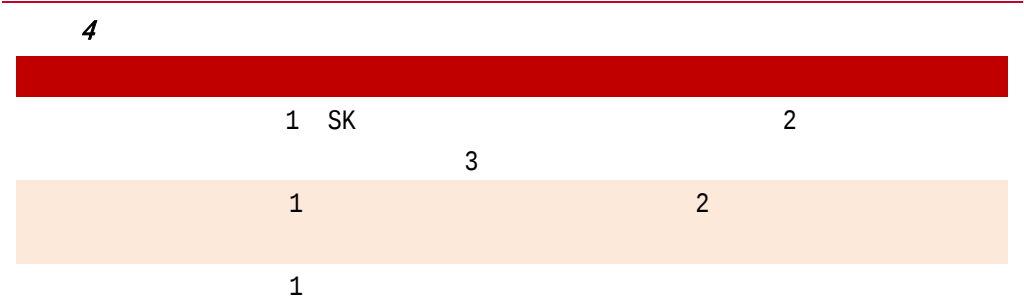
4

40

1983

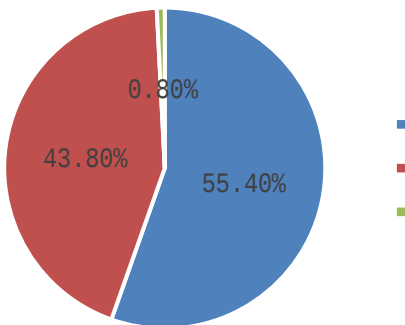
4

1



Bipolar		CMOS	DMOS	IC	
		BCD		5700V	BCD
BCD	SOI	BCD	BCD		
				0.11 m	
MEMS					
MEMS				CMOS	MEMS

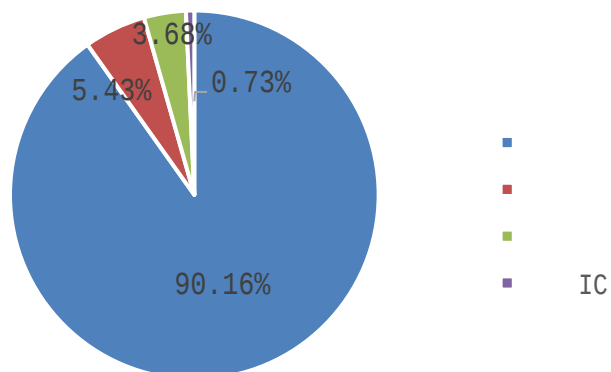
14



15



16



MOSFET
IDM
MOSFET
VDMOS
MOSFET
MOS
MOS

17

FRD

IC

BCD

BCD

IC

IC

IC

IC LED

IC

IC

+

MEMS

1 MEMS

2

ESD

UL

3

19

MEMS

MCU

MCU

MCU

OTP MTP FlashCMOS

4

8

16

32

CPU



	35%		2018
138	9.5%	35%	
	2021	159	
4.8%			
28			

IHS Markit

IGBT

IHS Markit

ASP

Gartner

2016

40% 13%

27%

strategic Analysis

338

704

108%

55%

71

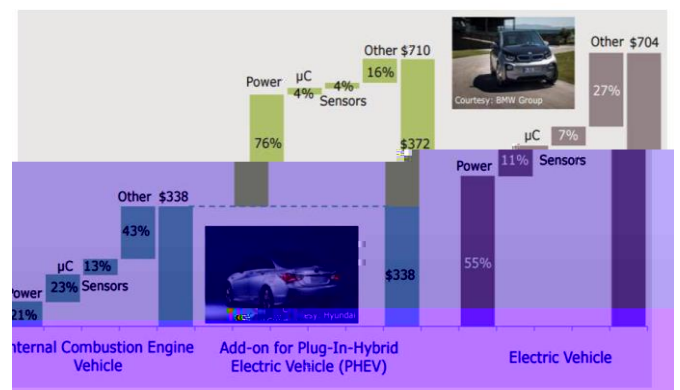
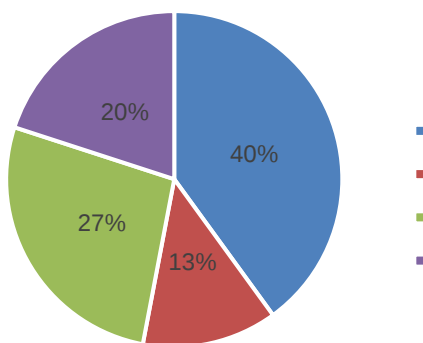
387

21%

5

30

31



Gartner 2016

StrategicAnalysis

50

IEA

2020

310

1300

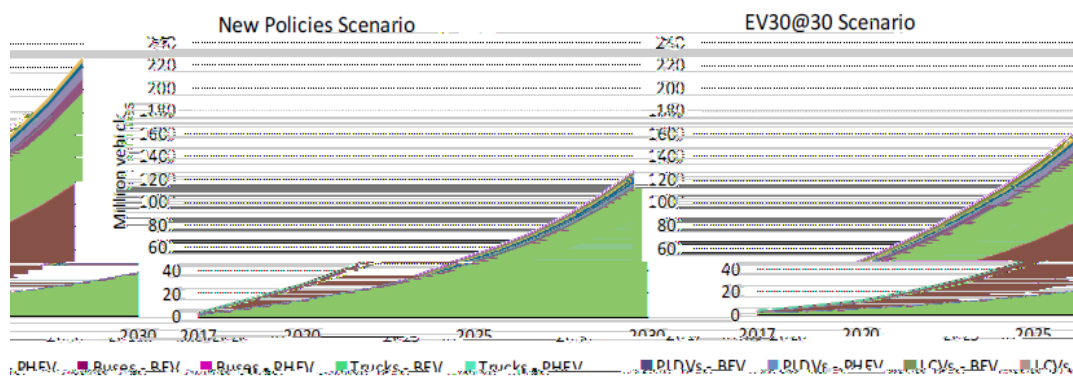
24%

2030

12500

50

32



IEA

2 MEMS

IoT Analytics 2020

		30%	BIS Research	36%
	26.2%		17.2%	10.21%
8.35%				

35

		BIS Research		
	MEMS		60%	
2018	MEMS	523	19.5%	2018-2020
	17.41%			

36 **MEMS**

3 MCU

MCU

MCU

Micro Control Unit

CPU RAM ROM

I/O

MCU

MCU

4

8

16

32

MCU

240

MCU

MCU

IC Insights

2018

MCU

186.2

3

11.4%

2018-2022

6.42%

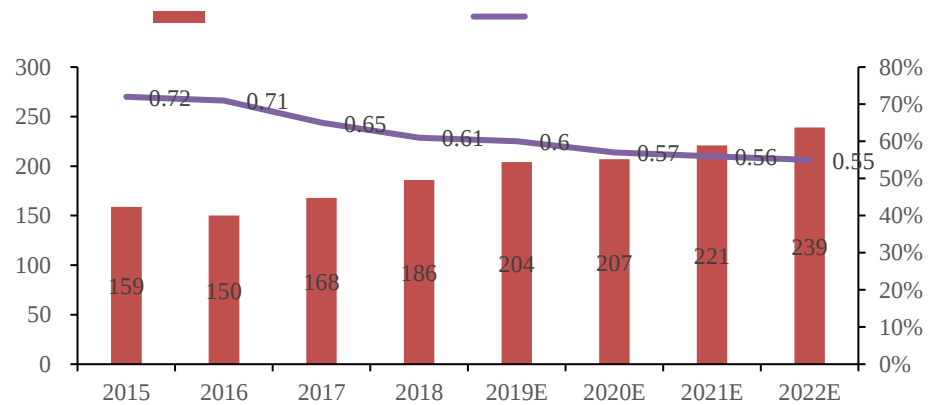
2022

MCU

240

37

MCU



IC Insights

MCU

40

MCU

IHS Markit

2017

MCU

46

5

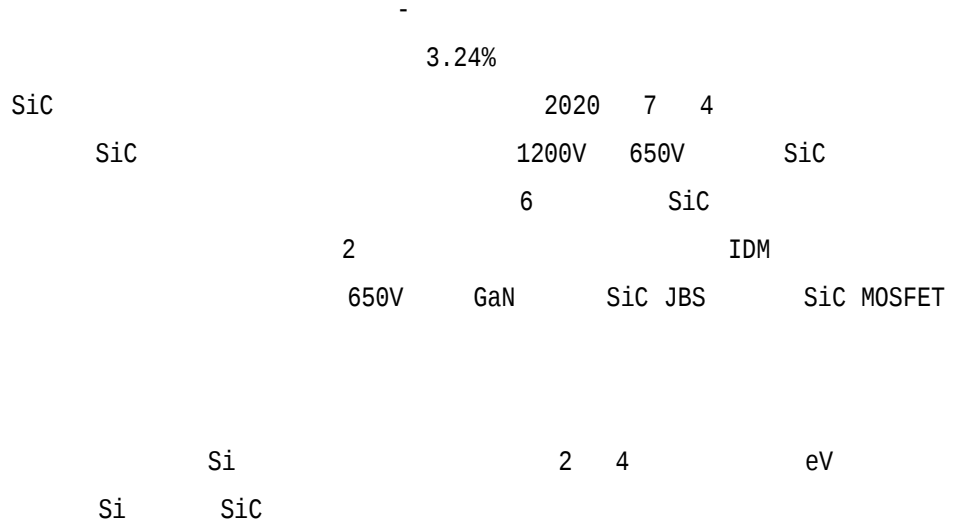
9.5%

60		
	62	69
PEPINNOVATION		
40	IDM	
IDM		

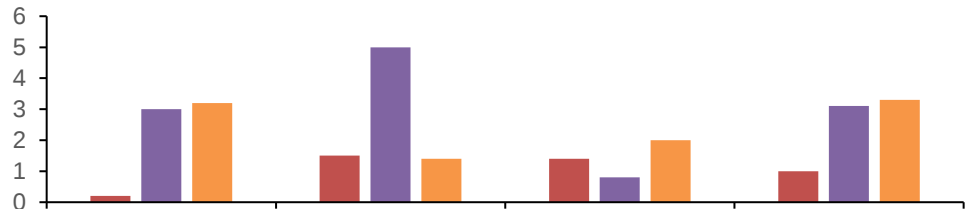
41

%

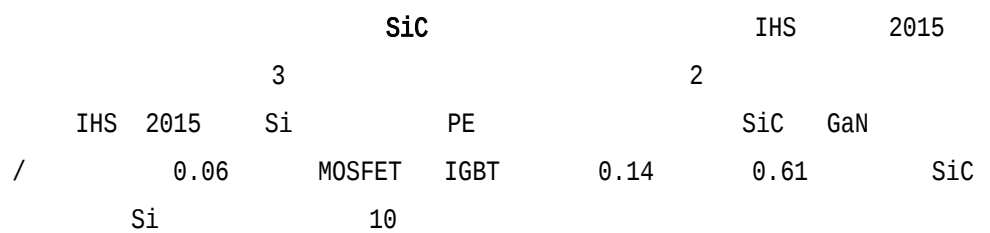
x



43



ORNL



44 *SiC*

IHS(2016)

2025

12

50

45 *SiC*

46

IHS(2016)

4.

IHS(2016)

1

47

/	2018	2019	2020E	2021E	2022E
	3,572.00	3,184.00	3502.40	3782.59	4009.55
	1.50%	-11.00%	10.00%	8.00%	6%
	18.57%	17.76%	18.50%	18.50%	18.50%
	2,683.00	2,516.00	3,019.20	3,562.66	4,097.05
	14.70%	-6.20%	20.00%	18.00%	15.00%
	34.02%	29.48%	33.50%	34.00%	34.50%
	15.00	44.00	35.00	35.00	35.00
	-22%	193.00%	-20%	0%	0%
	28.46%				
