

BRCs050N06sZC

Rev.A Feb.-2025



蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

PDFN5×6 N

N-Channel MOSFET in a PDFN5×6 Plastic Package.

V_{DS}

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DATA SHEET

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	60	V
Continuous Drain Current	$I_D(T_C=25^\circ C)$	81	A
Pulsed Drain Current	I_{DM}	256	A
Gate-Source Voltage	V_{GS}	± 20	V

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DATA SHEET

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=30V$ $R_L=1.5$ $R_{GEN}=3$		7.6		ns
Turn-On Rise Time	t_r			6.7		
Turn-Off Delay Time	$t_{d(off)}$			39		
Turn-Off Fall Time	t_f			8.5		

/ Electrical Characteristic Curve

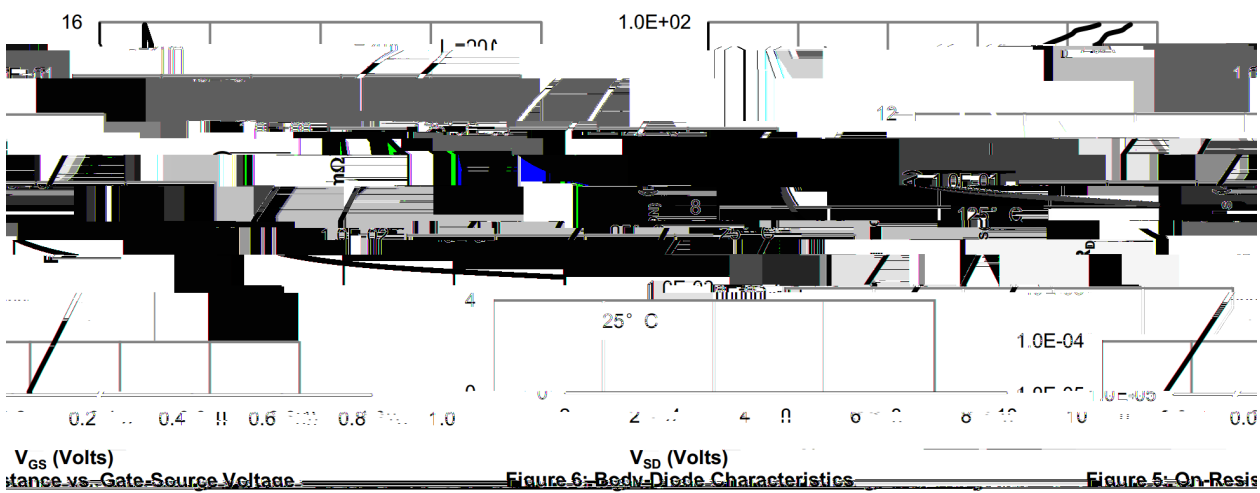
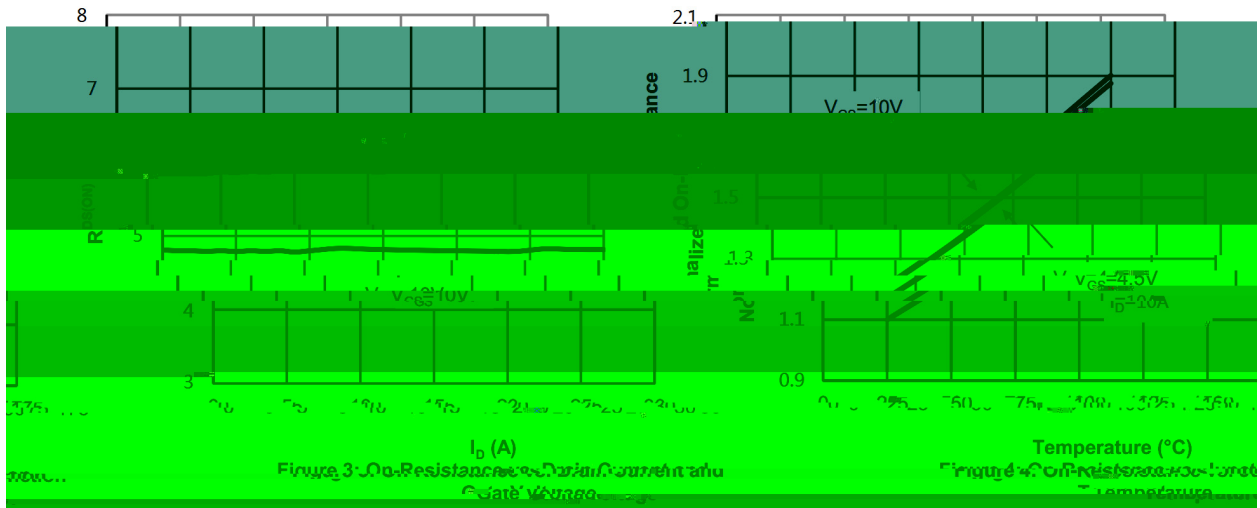
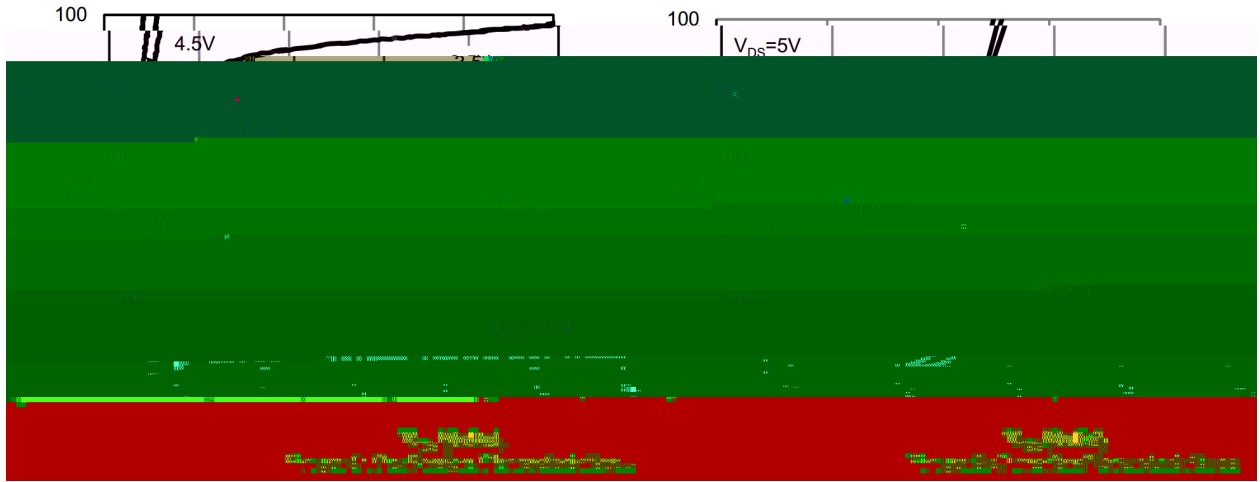
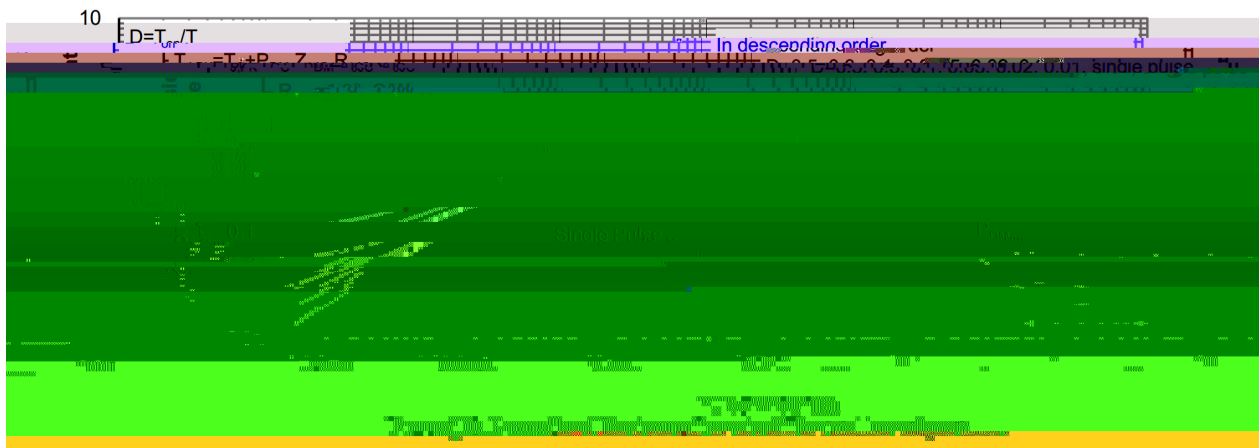
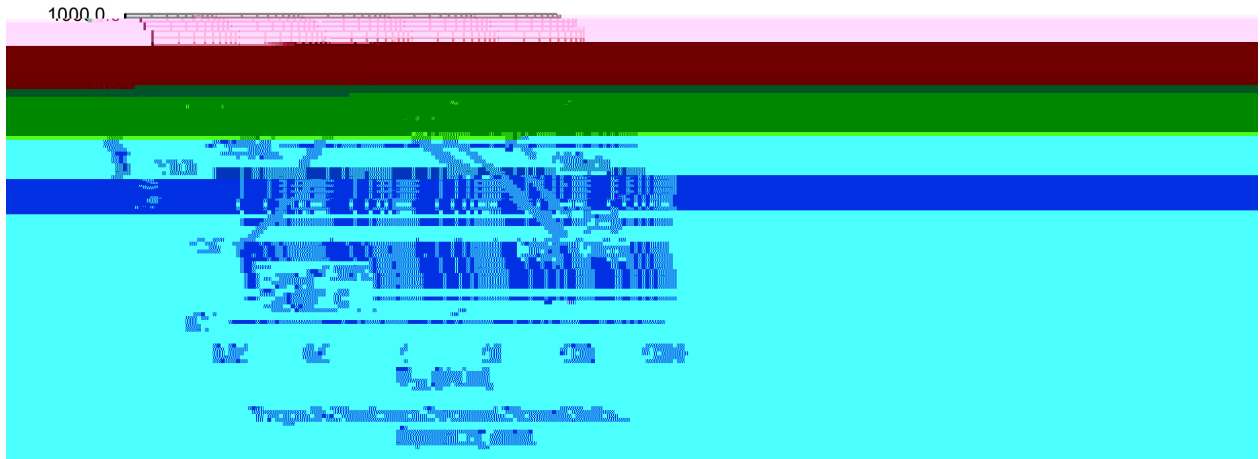
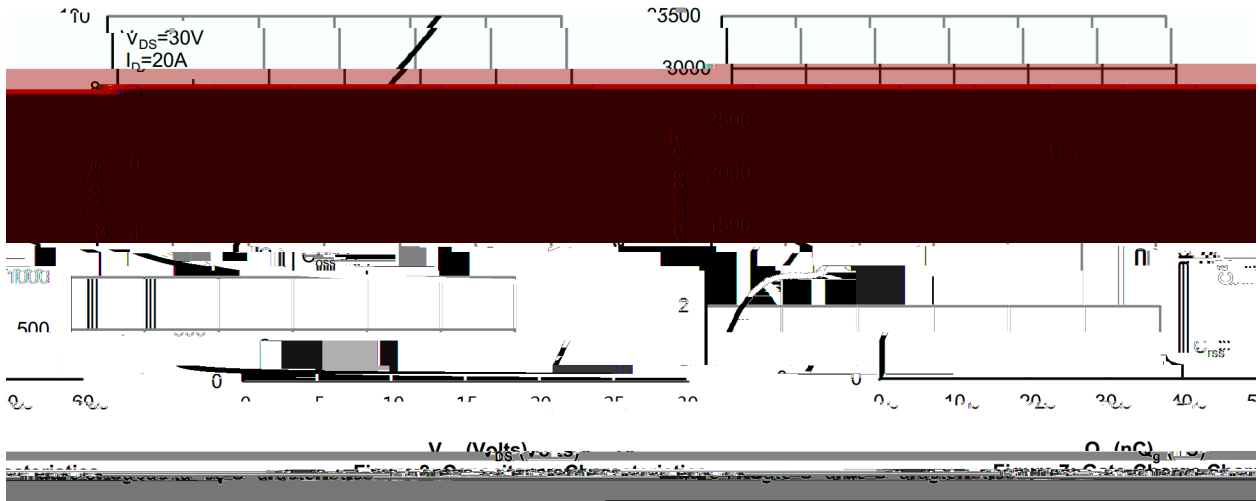


Figure 3: On-Resistance vs. Drain Current and Temperature Figure 4: On-Resistance vs. Drain Current and Temperature Figure 5: On-Resistance vs. Gate-Source Voltage Figure 6: Body Diode Characteristics

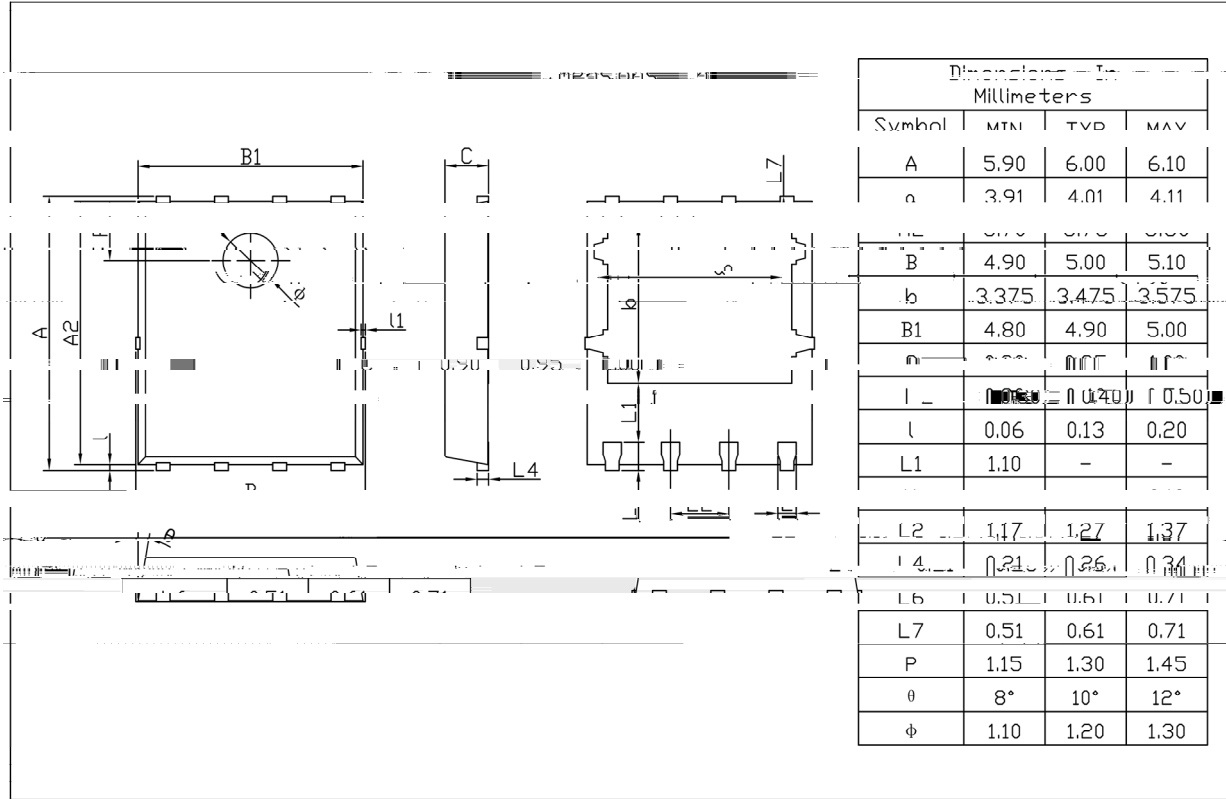
/ Electrical Characteristic Curve



/ Package Dimensions

PDFN5 X6

Unit:mm



Rev.01 202209

/ Marking Instructions



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050N06S

Note

BR

Company Code

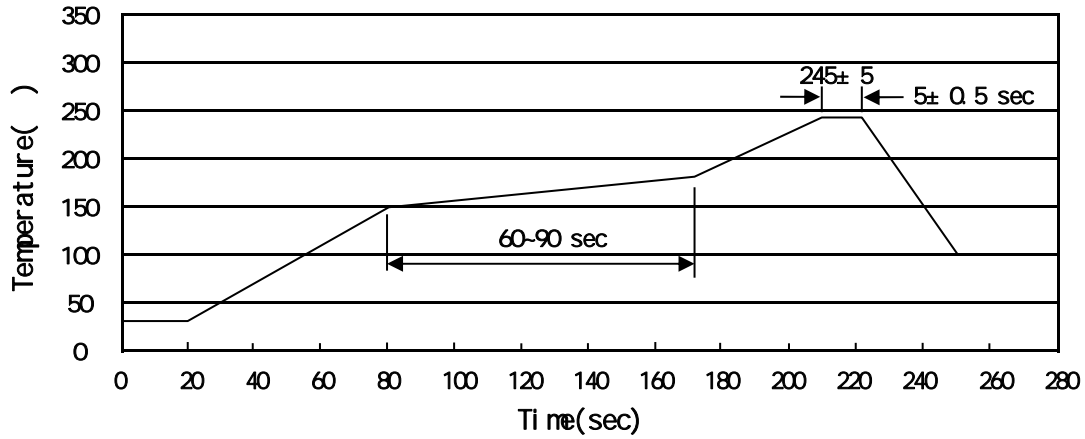
050N06S

Product Type Code

****:

Lot No. Code, code change with Lot No

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-------|-----|-------|----------|---|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245±5 | | 5±0.5 | sec; | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | | | 2 | 10 /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	/	/	/	/	/			
PDFN5x6	5,000	2	10,000	6	60,000	13"x12	360x360x50	380x335x366

/ Notices