

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

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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

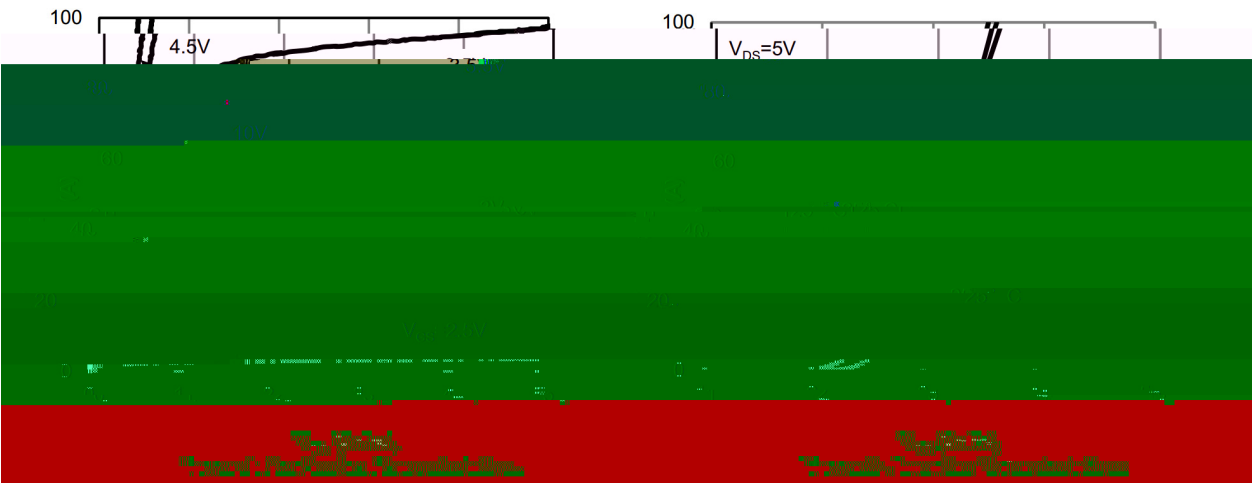
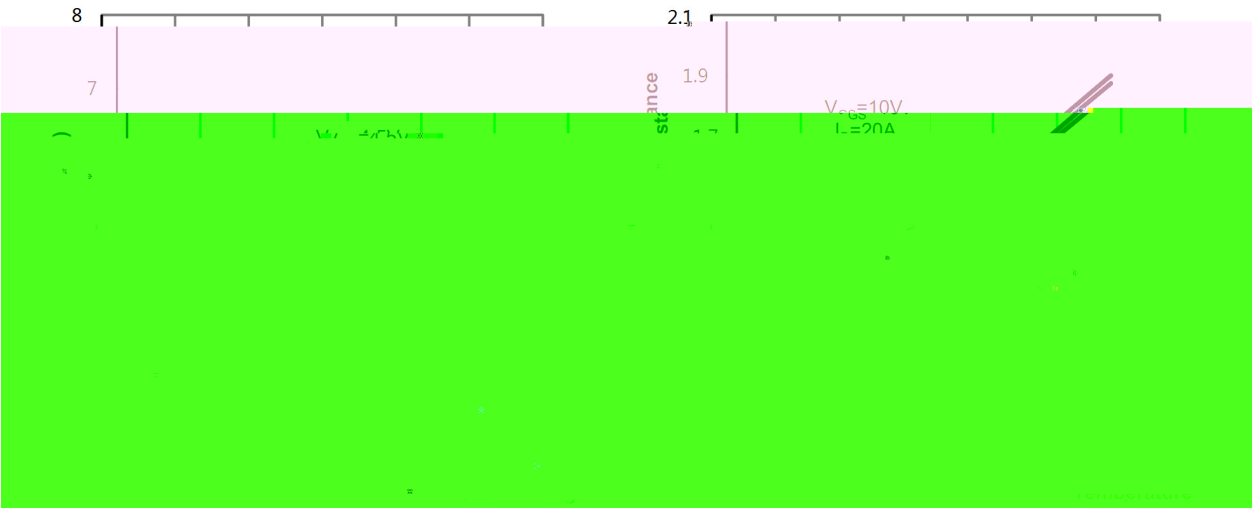
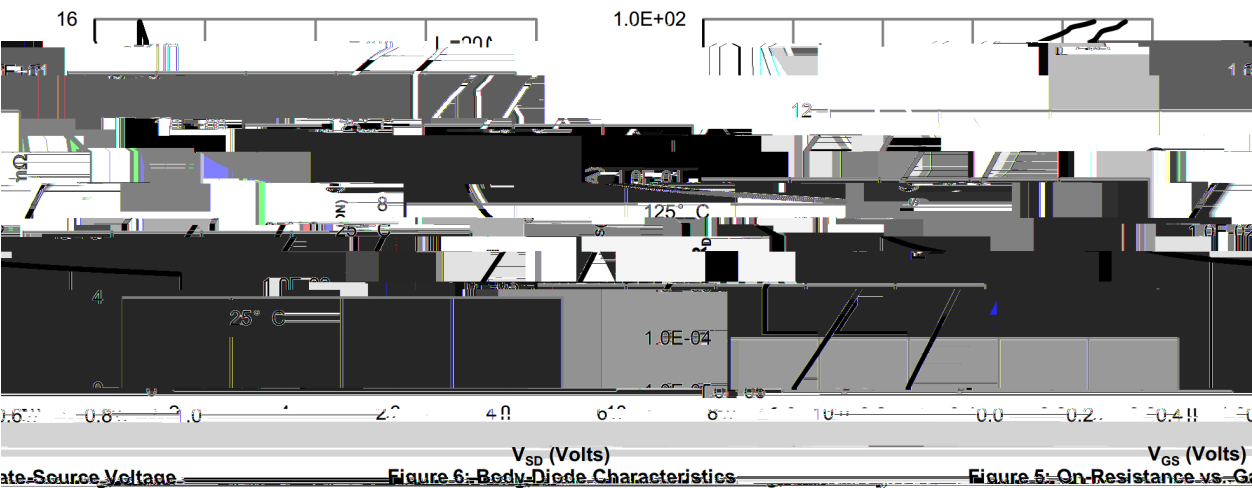
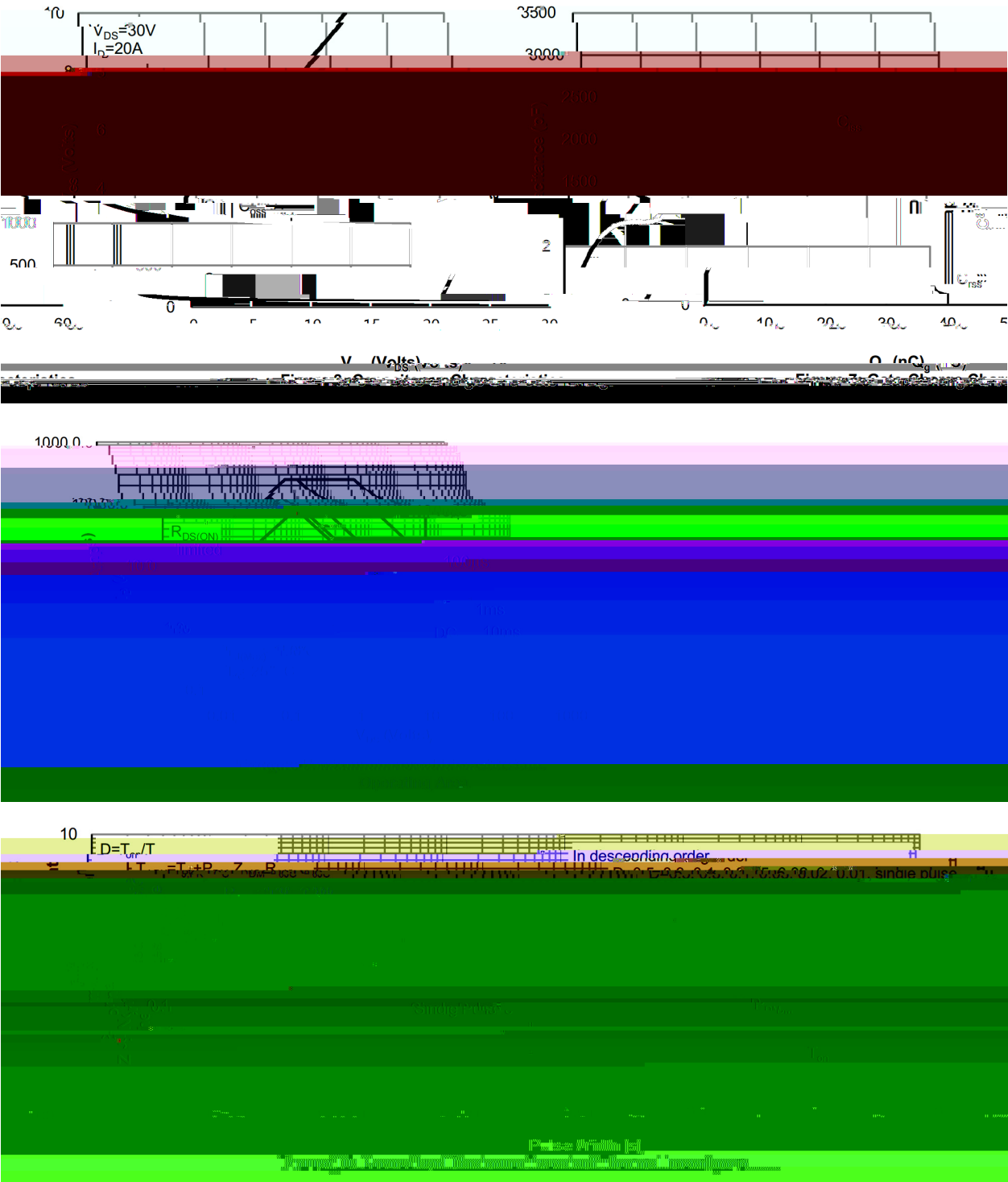
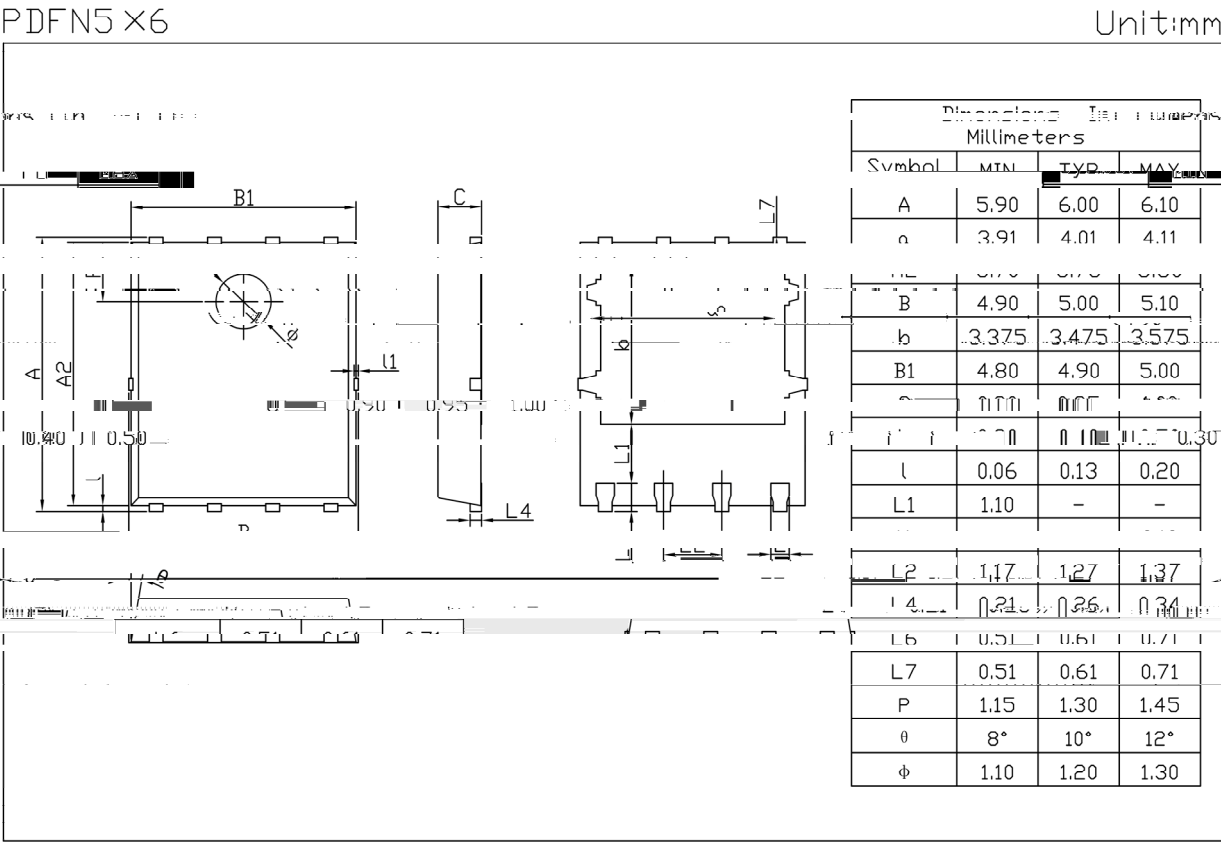


Figure 5: On-Resistance vs. Gate-Source Voltage Figure 6: Body Diode Characteristics Figure 7: Power Dissipation Characteristics

/ Electrical Characteristic Curve



/ Package Dimensions



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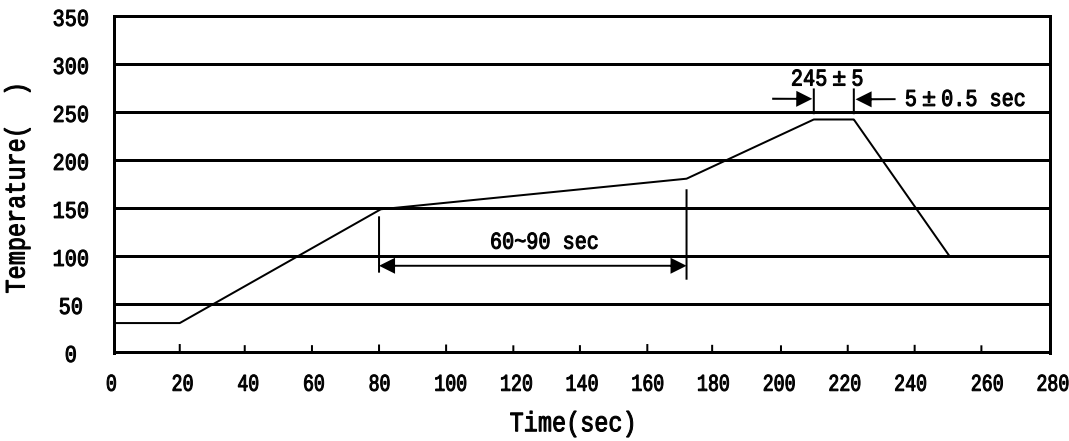
/ Marking Instructions



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 °C , Time:60~90sec.
- 2

245 5

5 0.5sec;

2.Peak Temp.:245 ± 5 °C , Duration:5 ± 0.5sec.
- 3

2 10

/sec.

3. Cooling Speed: 2~10 °C/sec.

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
PDFN5×6	5,000	2	10,000	6	60,000	13"×12	360×360×50	380×335×366

/ Notices