

# BRCs050N06sZC

Rev.A Feb.-2025



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	$V_{GS}$	$\pm 20$	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**

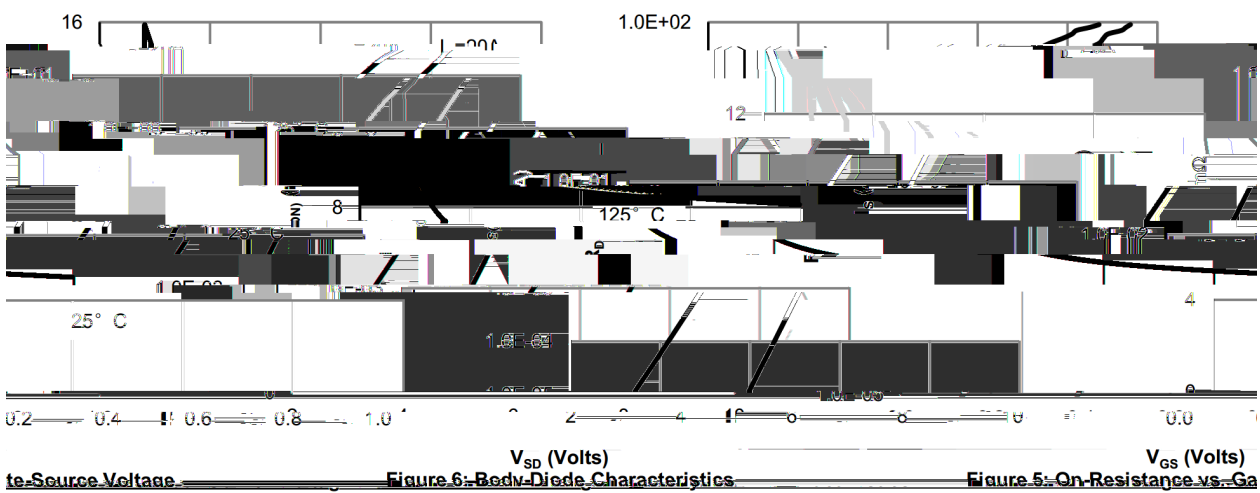
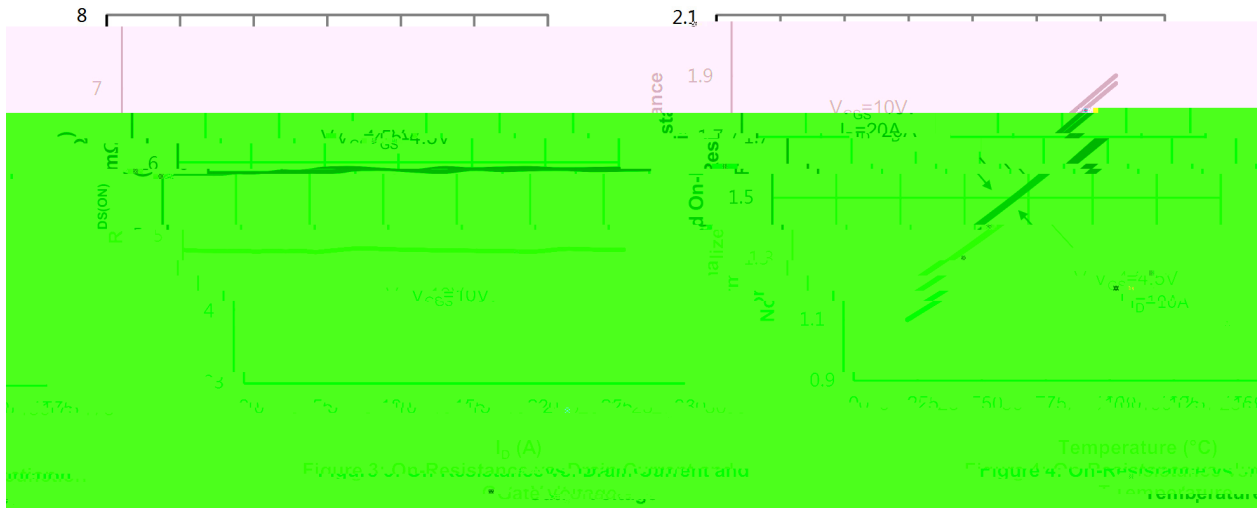
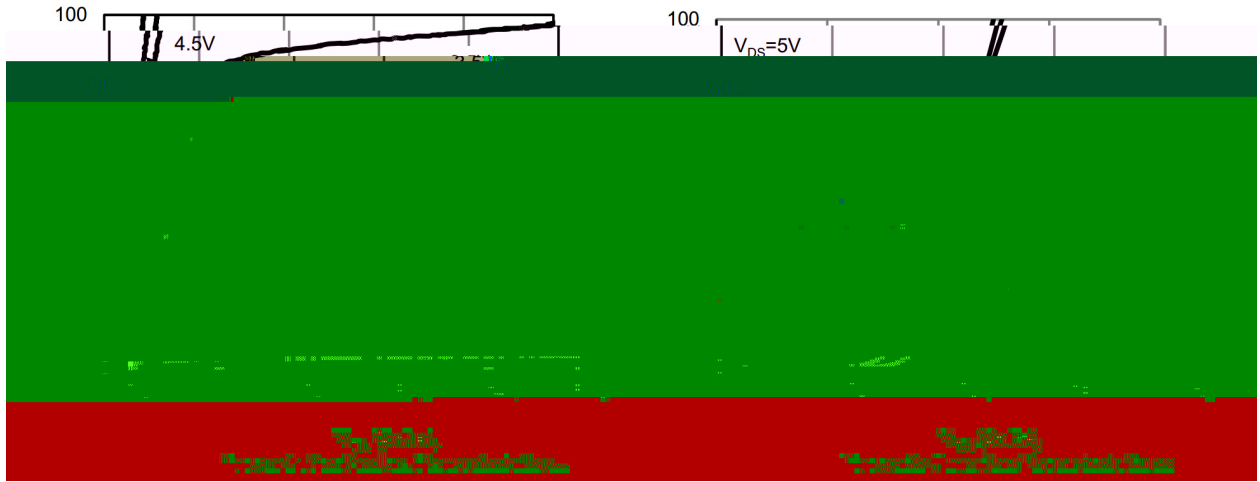
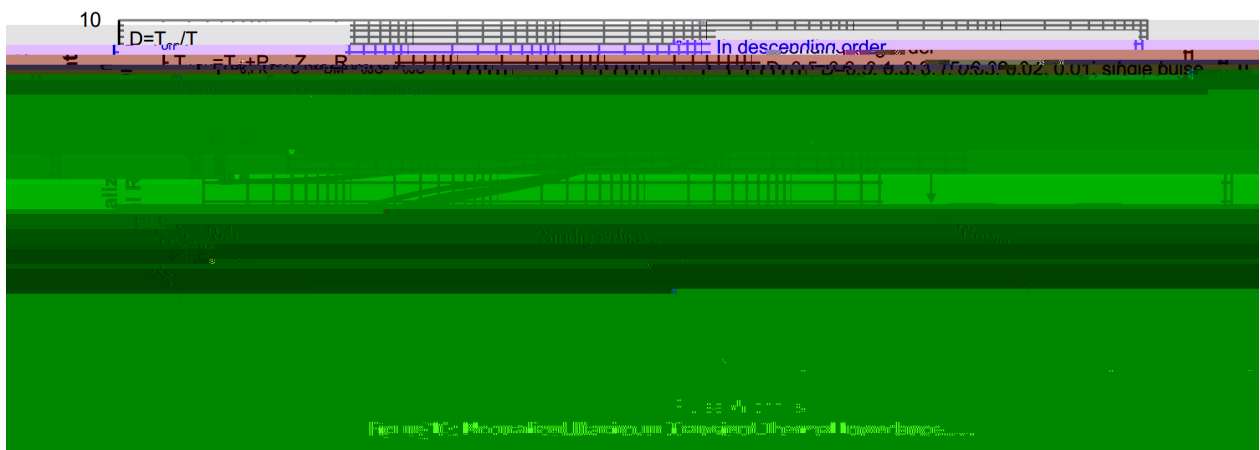
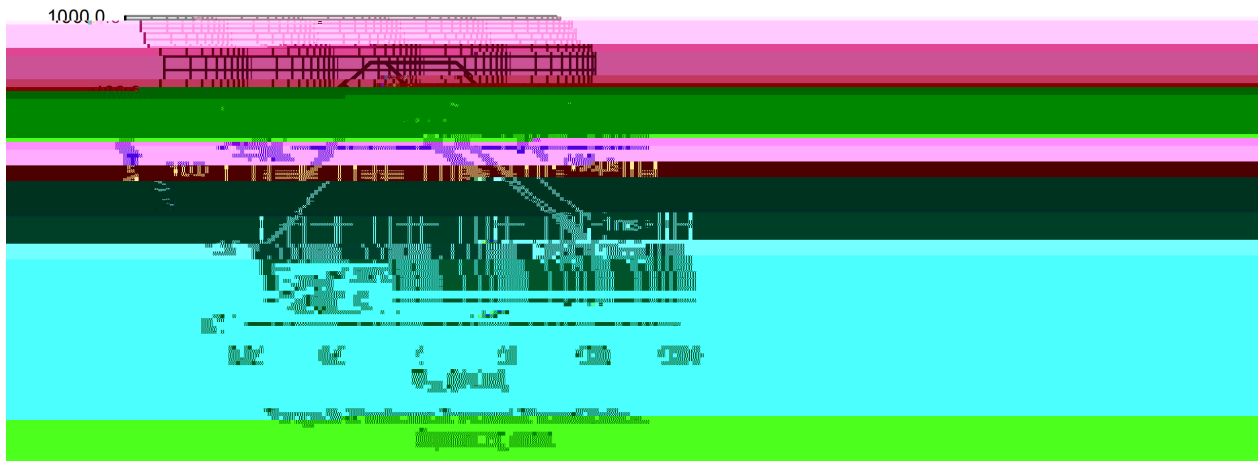
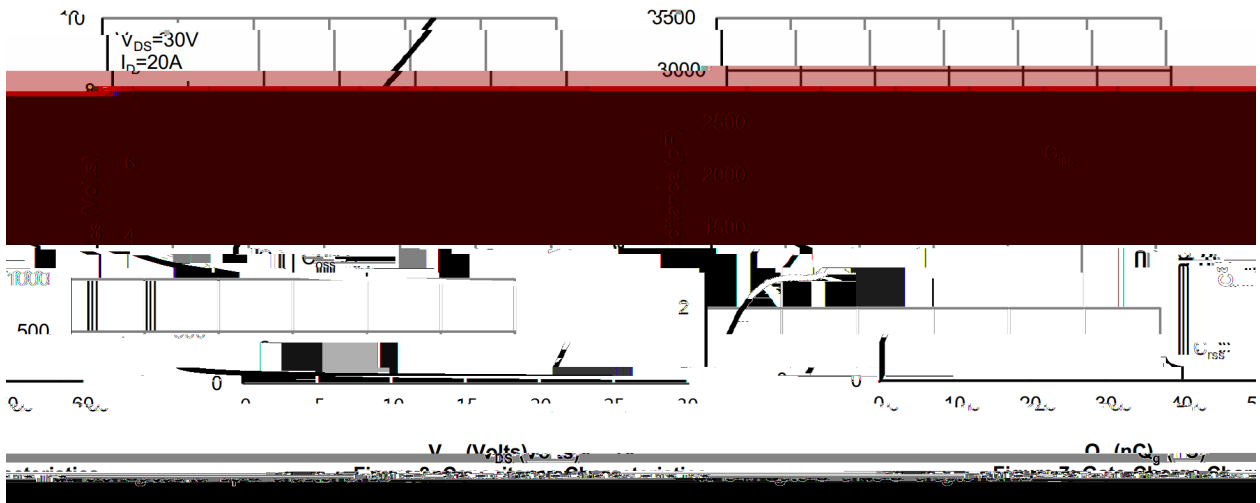


Figure 6: Body Diode Characteristics      Figure 5: On-Resistance vs. Gate Voltage

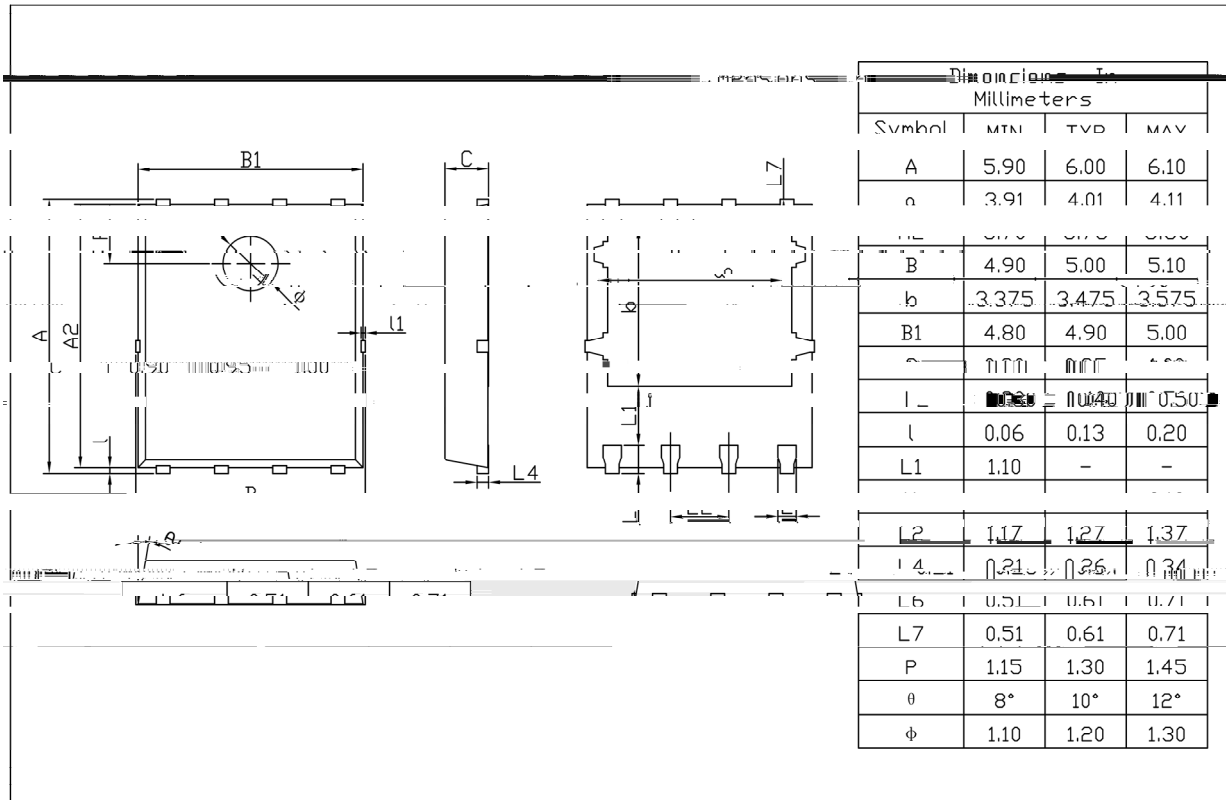
/ Electrical Characteristic Curve



**/ Package Dimensions**

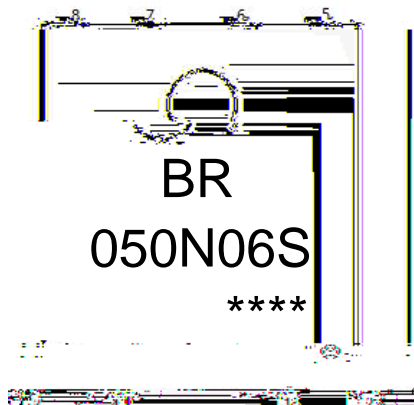
PDFN5 X6

Unit:mm



Rev.01 202209

**/ Marking Instructions**



BR

050N06S

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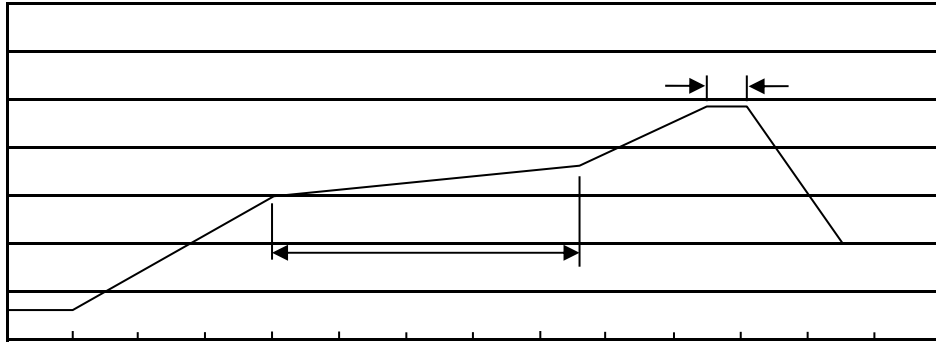
Note

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±0.5sec; | 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 <sup>3</sup> )		
	/	/	/	/	/			
PDFN5x6	5,000	2	10,000	6	60,000	13"x12	360x360x50	380x335x366

/ Notices