



# BRCS200P03ZC

Rev.B Sep.-2024



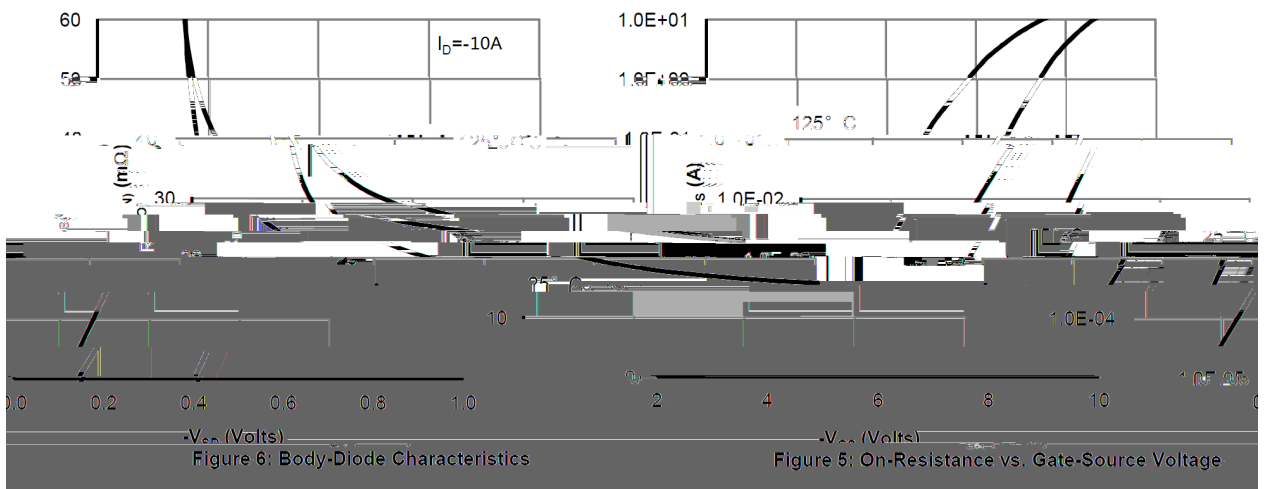
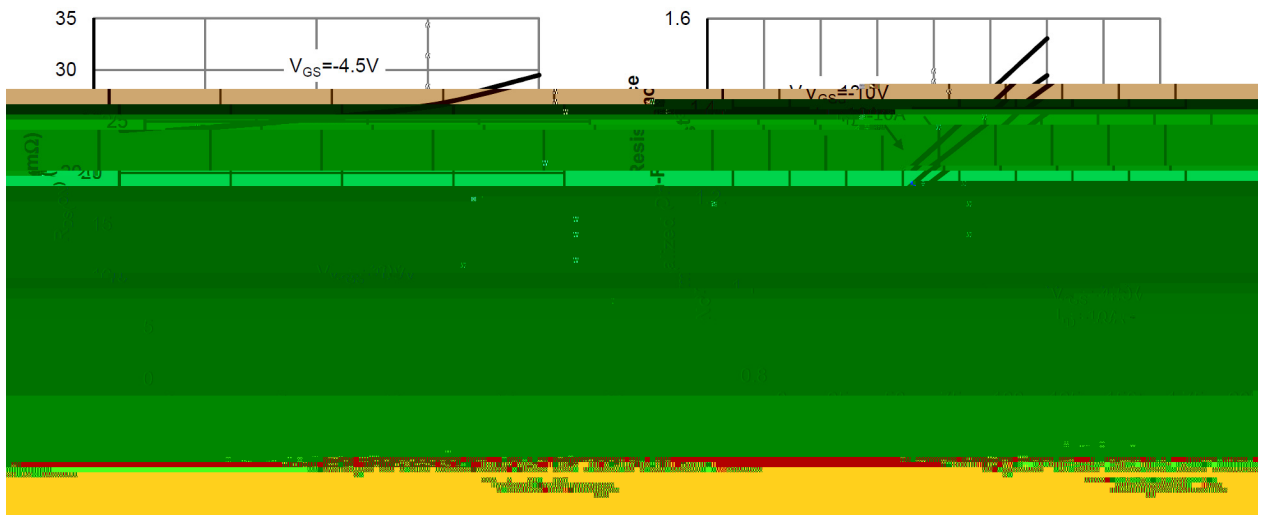
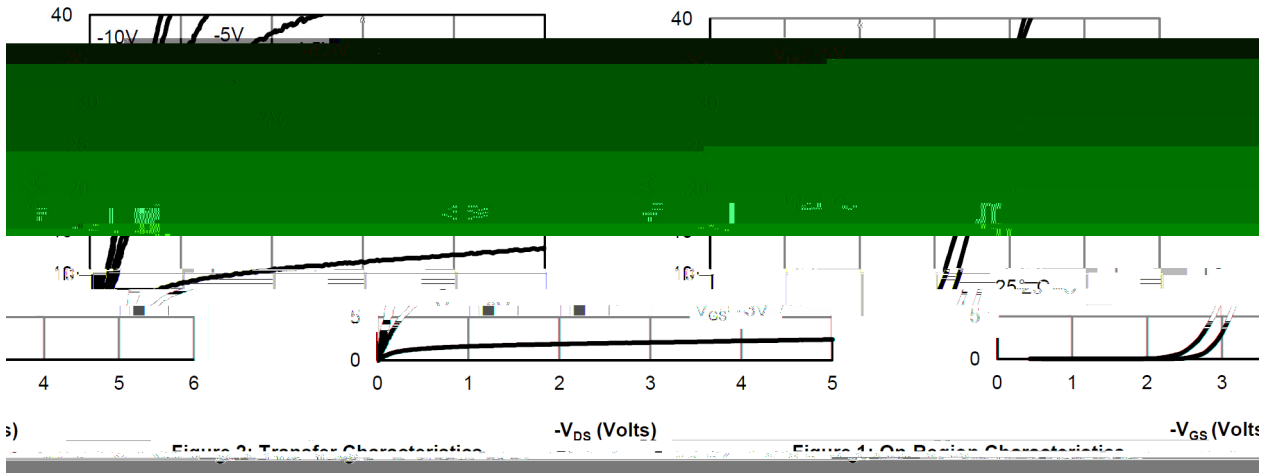
DATA SHEET

Parameter	Symbol	Rating	Unit	
Drain-Source Voltage	$V_{DS}$	-30	V	
Drain Current - Continuous	$I_D(T_c=25^\circ\text{C})$	-30	A	
Drain Current – Pulsed	$I_{DM}$	-92	A	
Gate-Source Voltage	$V_{GS}$	$\pm 20$	V	
Power Dissipation	$P_D(T_c=25^\circ\text{C})$	28	W	
Single Pulse Avalanche Energy(L=0.5mH)	$E_{AS}$	152	mJ	
Avalanche Current(L=0.5mH)	$I_{AS}$	19.5	A	
Junction and Storage Temperature Range	$T_j, T_{stg}$	-55 to 150		
Thermal resistance, junction - ambient	t 10s	$R_{JA}$	28	/ W
	Steady-State		62	
Thermal resistance, junction - case	Steady-State	$R_{JC}$	4.5	

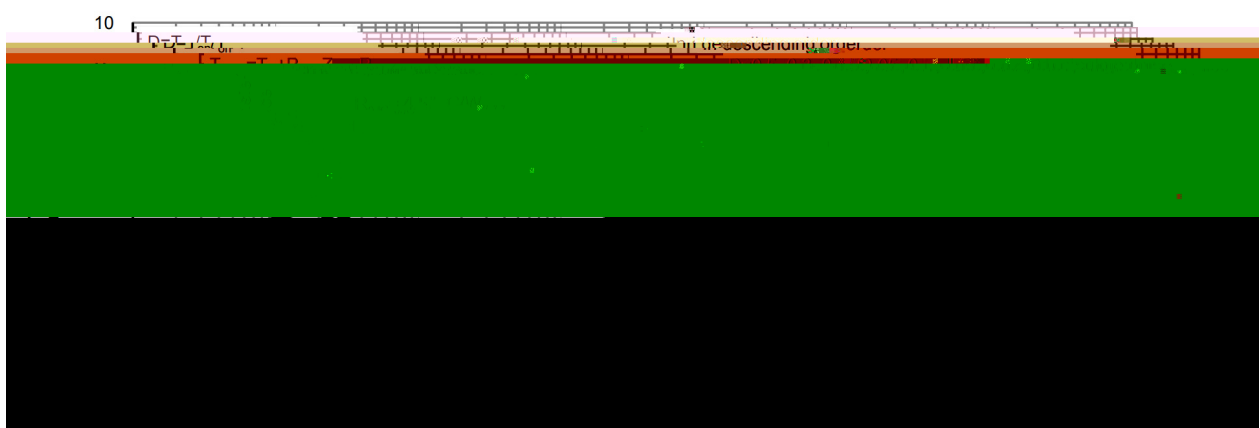
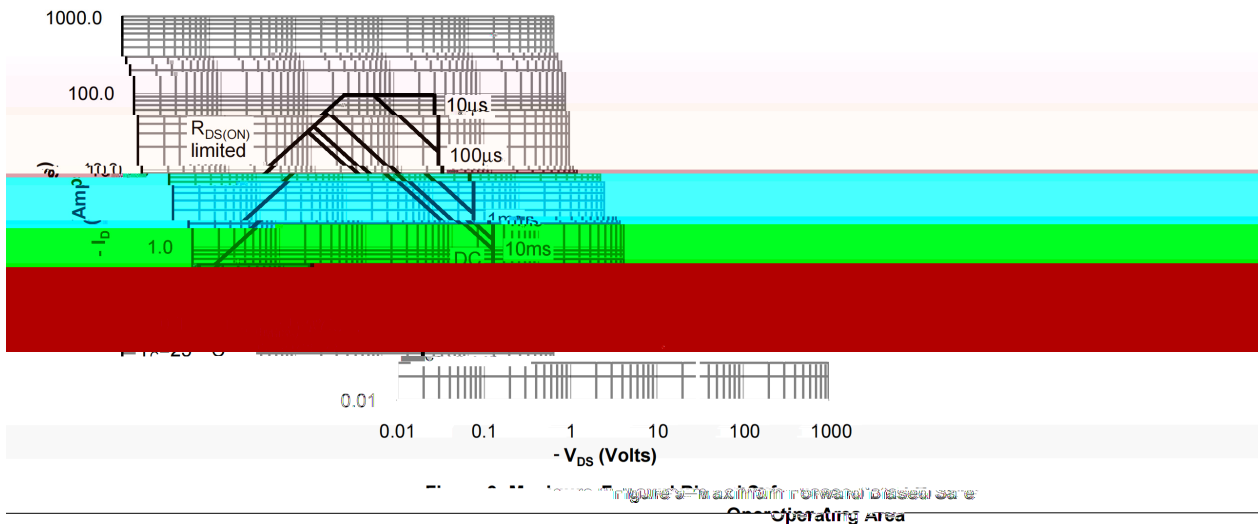
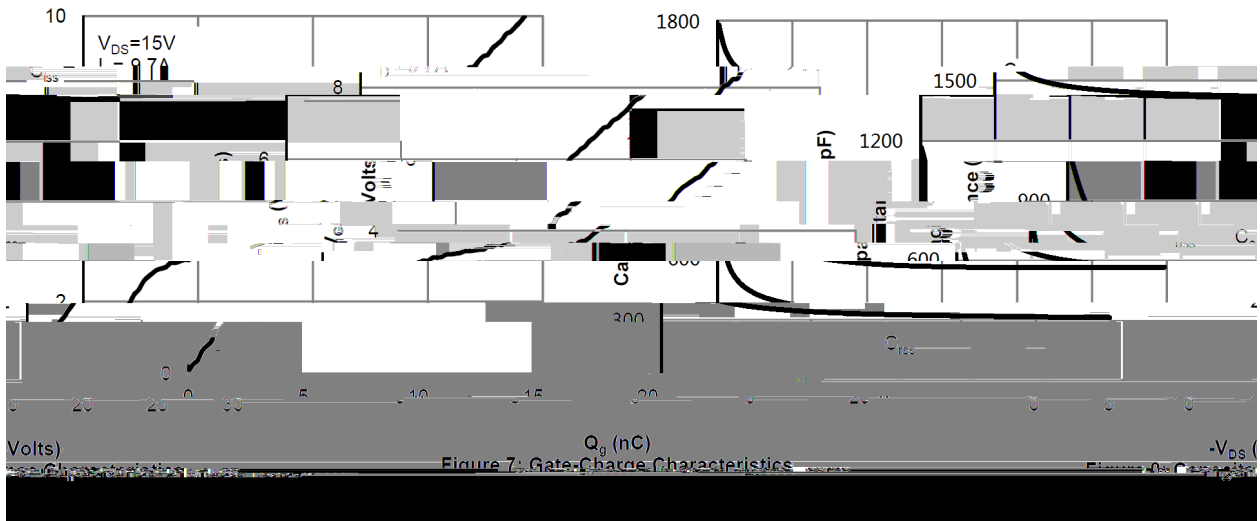
**/ Electrical Characteristics(Ta=25 )**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=-10V$ $V_{DS}=-15V$ $R_L=1.5$ $R_{GEN}=3$		10		ns
Turn-On Rise Time	$t_r$			5.5		
Turn-Off Delay Time	$t_{d(off)}$			26.1		
Turn-Off Fall Time	$t_f$			9.1		

/ Electrical Characteristic Curve



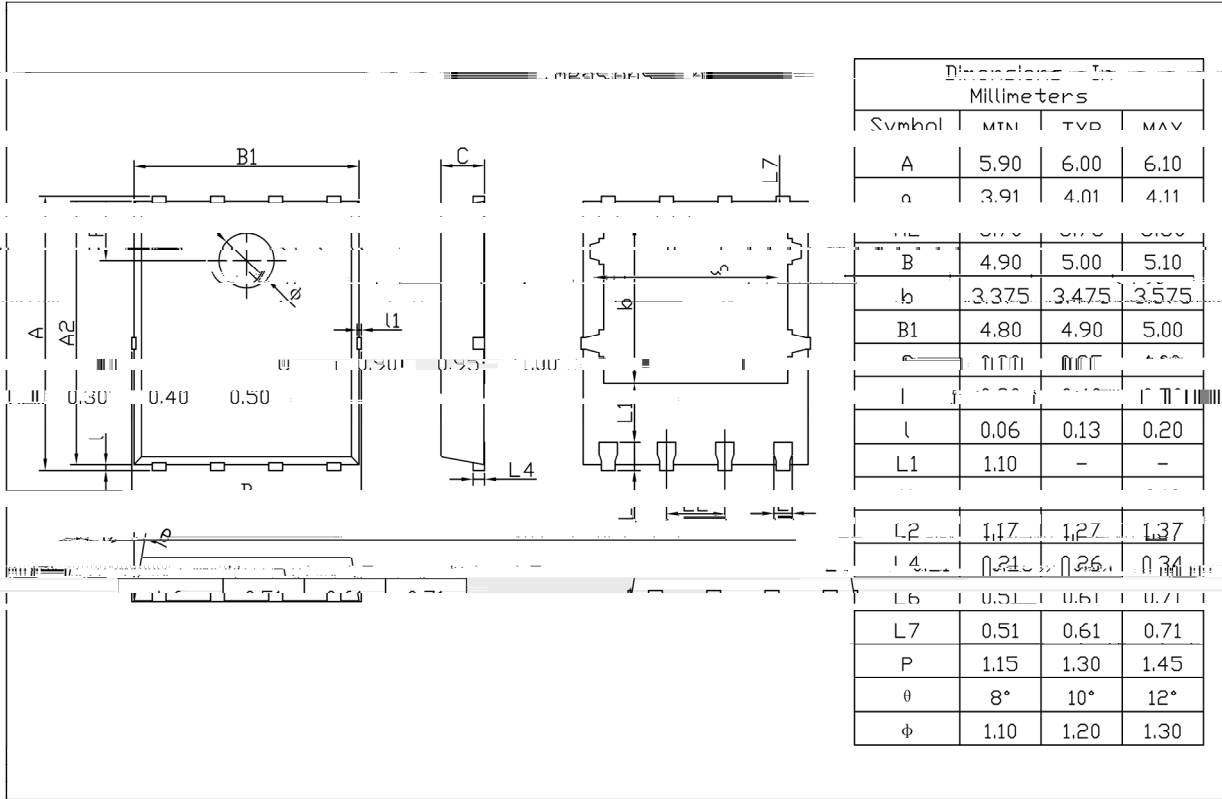
**/ Electrical Characteristic Curve**



**/ Package Dimensions**

PDFN5 X6

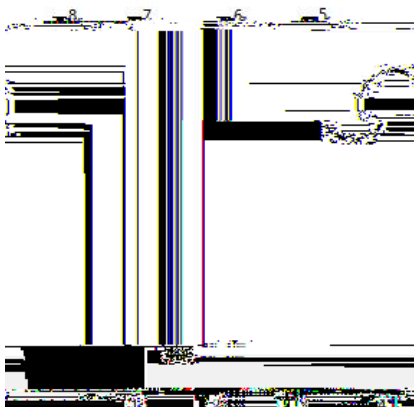
Unit:mm



Rev.01 202209



**/ Marking Instructions**



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Note

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**( ) / 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
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**/ Packaging SPEC.**

**/ REEL**

Package Type	Units				Dimension (unit mm <sup>3</sup> )
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Boxes
	&	&	&	&	&