

BRCs035N04SZC

Rev.A Mar.-2024

/ Descriptions

PDFN5² 6 N
N-Channel MOSFET in a PDFN5x6 Plastic Package.

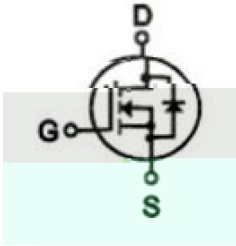
/ Features

$V_{DS}(V)=40\text{ V}$ $I_D=98\text{ A}$
 $R_{DS(ON)}@10\text{ V}$ 3.5m (Typ.3.0mR)
 $R_{DS(ON)}@4.5\text{ V}$ 5.0m (Typ.4.0mR)
HF Product.

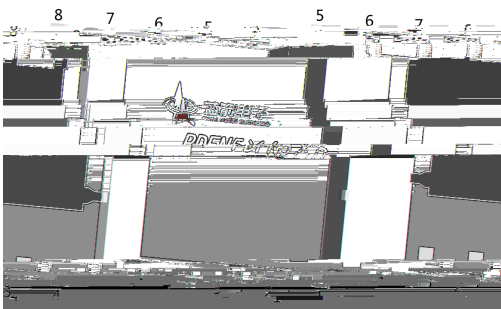
/ Applications

D 9&E 9&L D G: &M> 8 9I Zb \$
Battery Management,High Frequency Point-of-Load Synchronous Buck Converter for MB/NB/UMPC/VGA,Networking DC-DC Power System,Load Switch.

/ Equivalent Circuit



/ Pinning



PIN1 2 3 S PIN4 G PIN5 6 7 8 D

/ Marking

See Marking Instructions.

BRCS035N04SZC

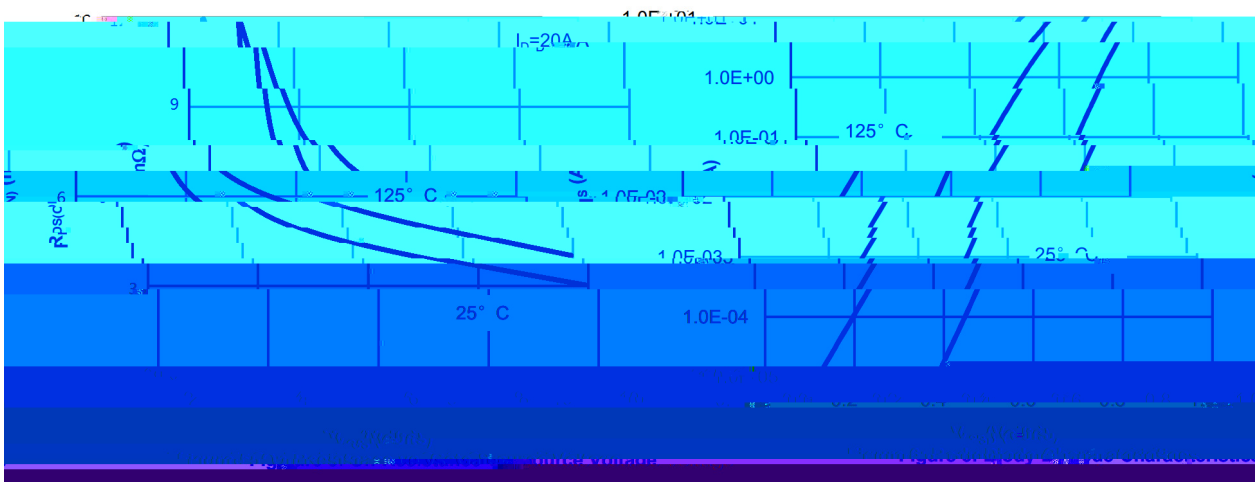
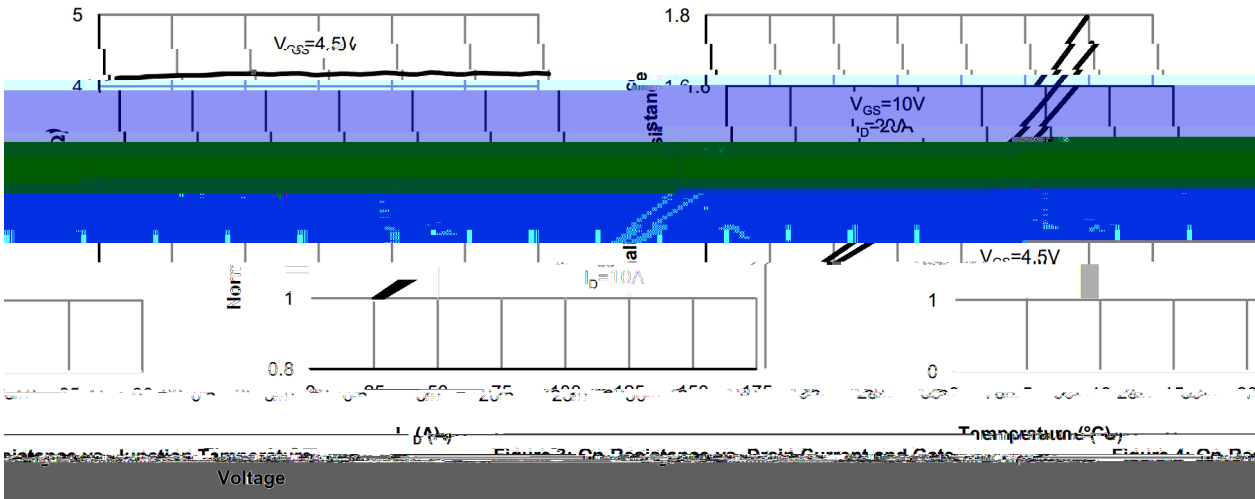
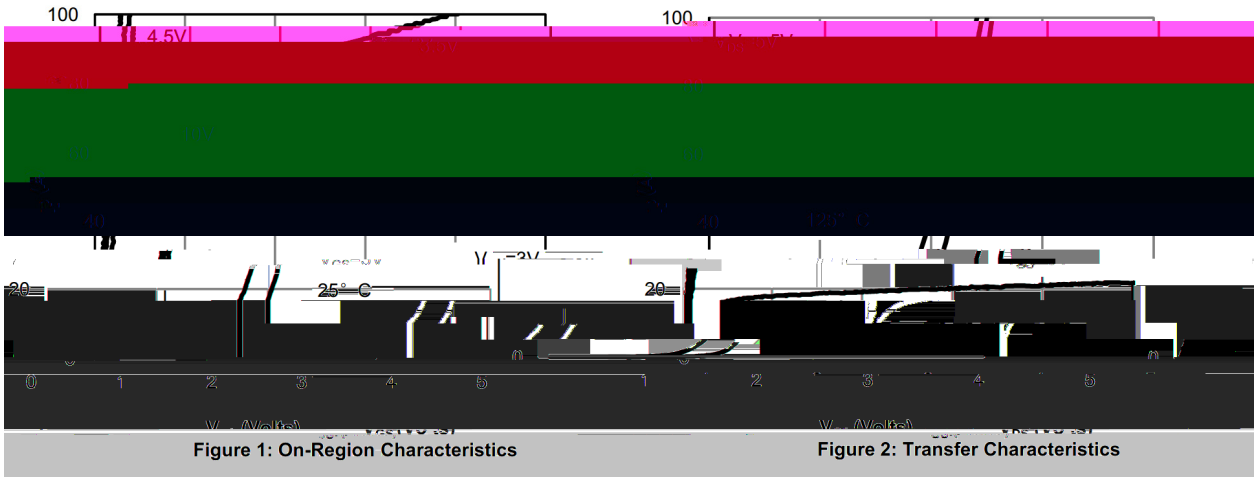
Rev.A Mar.-2024

DATA SHEET

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=20V$ $R_L=1$ $R_{GEN}=3$		11		ns
Turn-On Rise Time	t_r			11		
Turn-Off Delay Time	$t_{d(off)}$			40		
Turn-Off Fall Time	t_f			10		

/ Electrical Characteristic Curve



/ Electrical Characteristic Curve

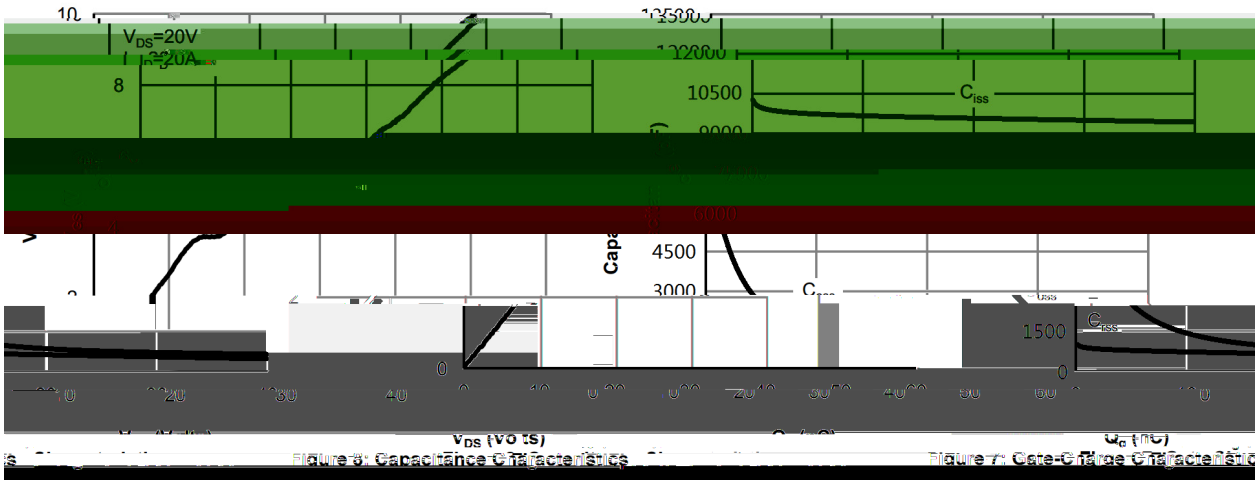


Figure 6: Capacitance Characteristics

Figure 7: Gate-Charge Characteristics

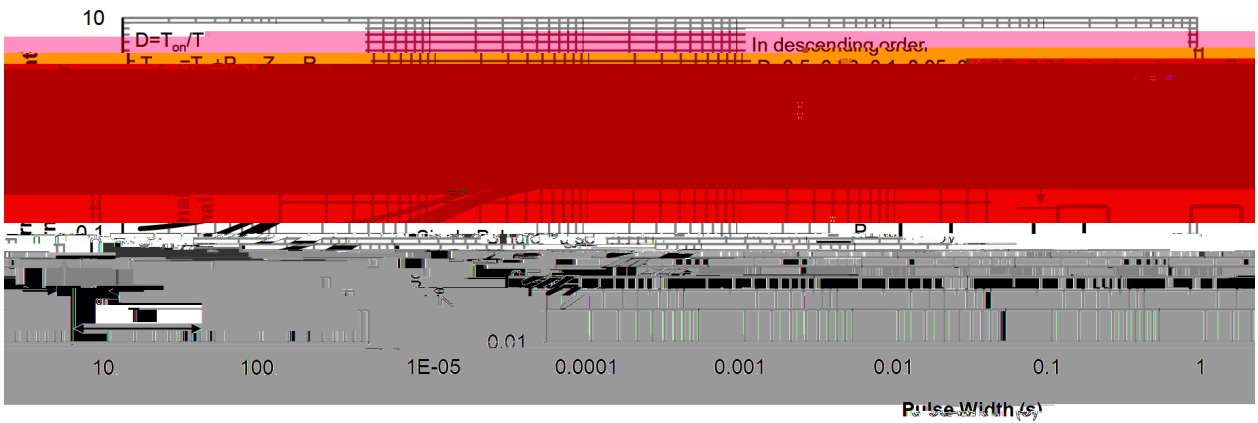
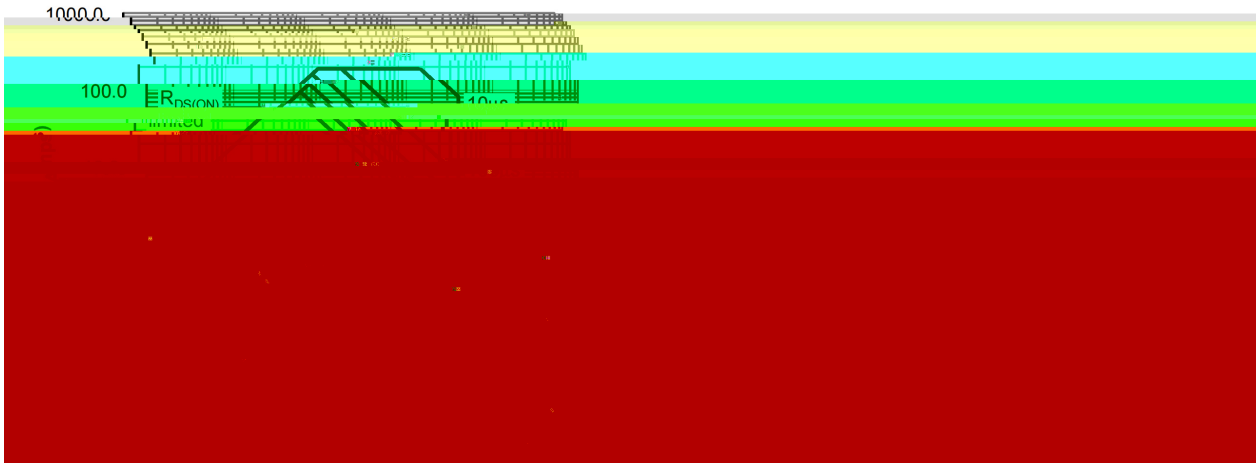
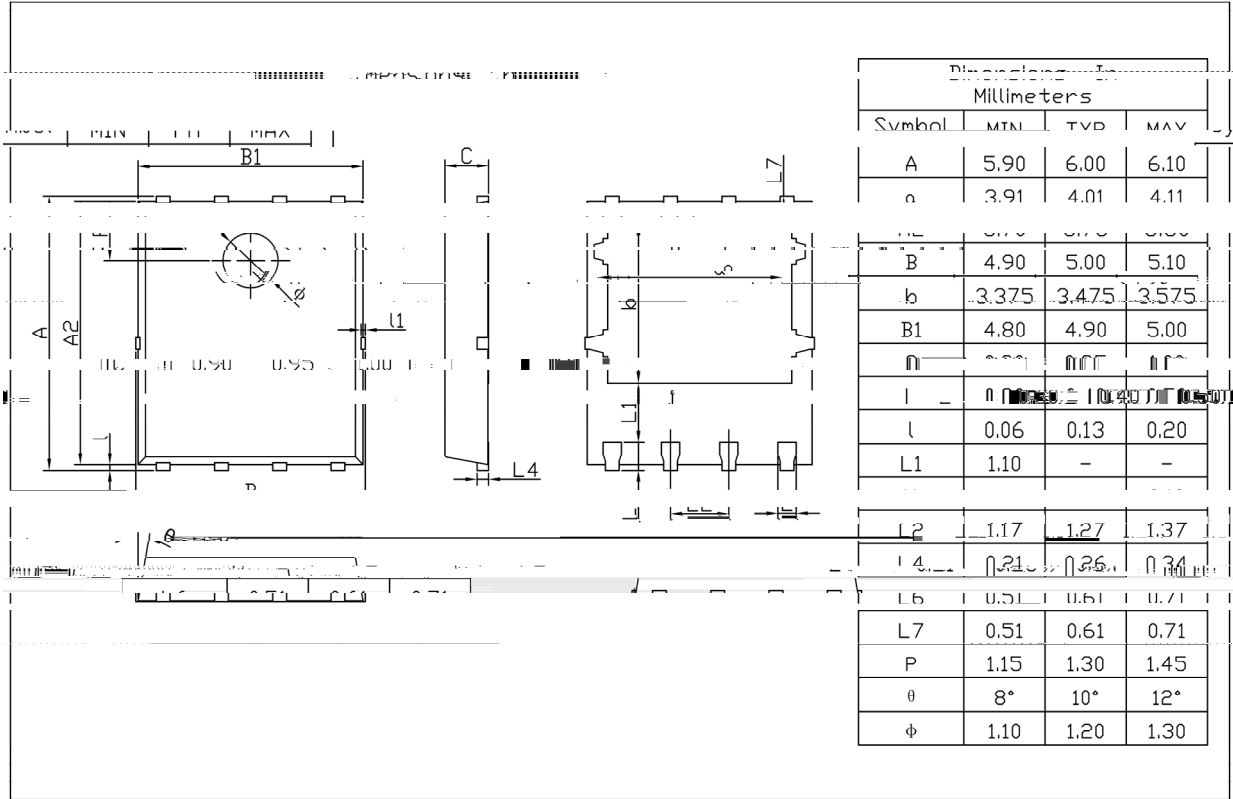


Figure 10: Normalized Maximum Energy of Thermal Degradation

/ Package Dimensions

PDFN5 X6

Unit:mm



Rev.01 202209



() / 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 ³)
--------------	-------	-----------	-------------------------