

BRCS035N04SZC

Rev.A Mar.-2024

/ Descriptions

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

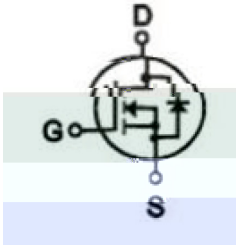
/ Features

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

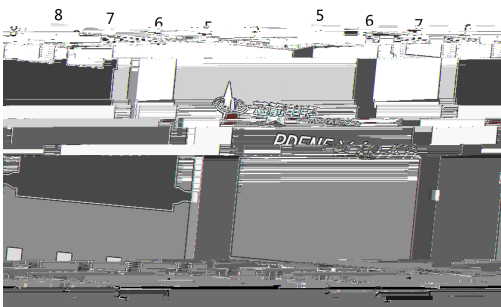
/ Applications

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.

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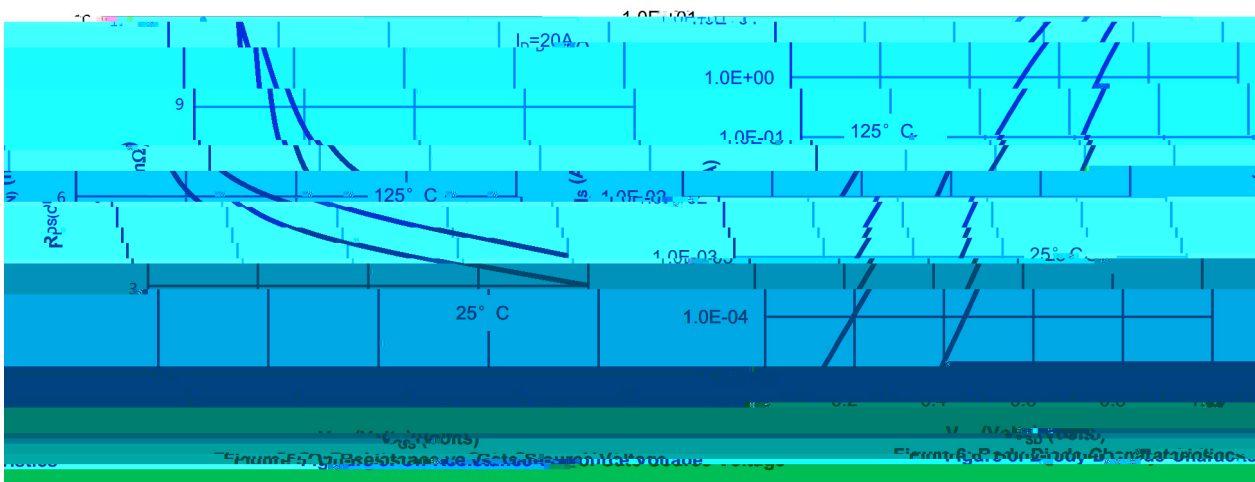
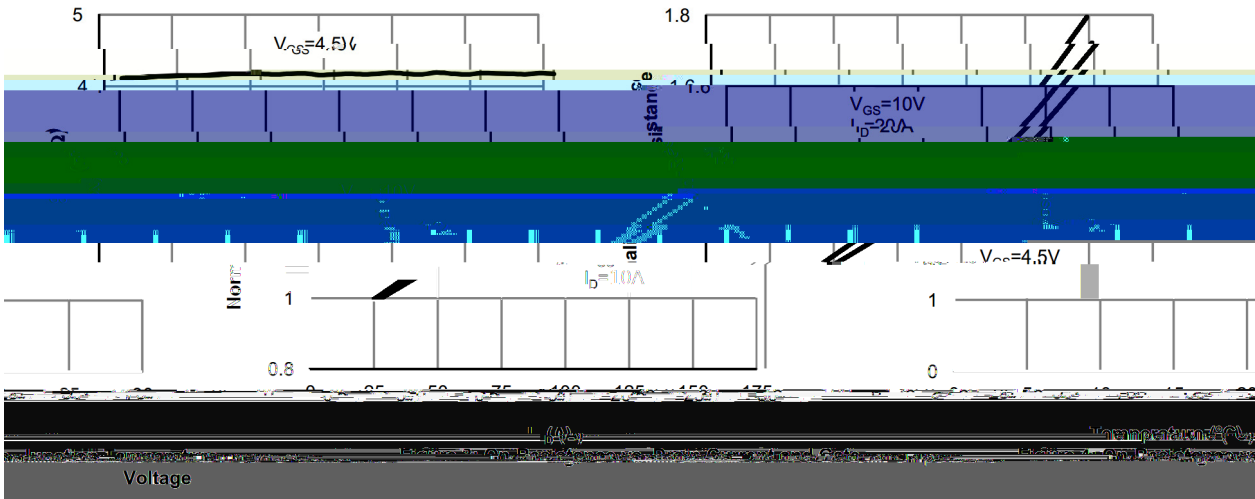
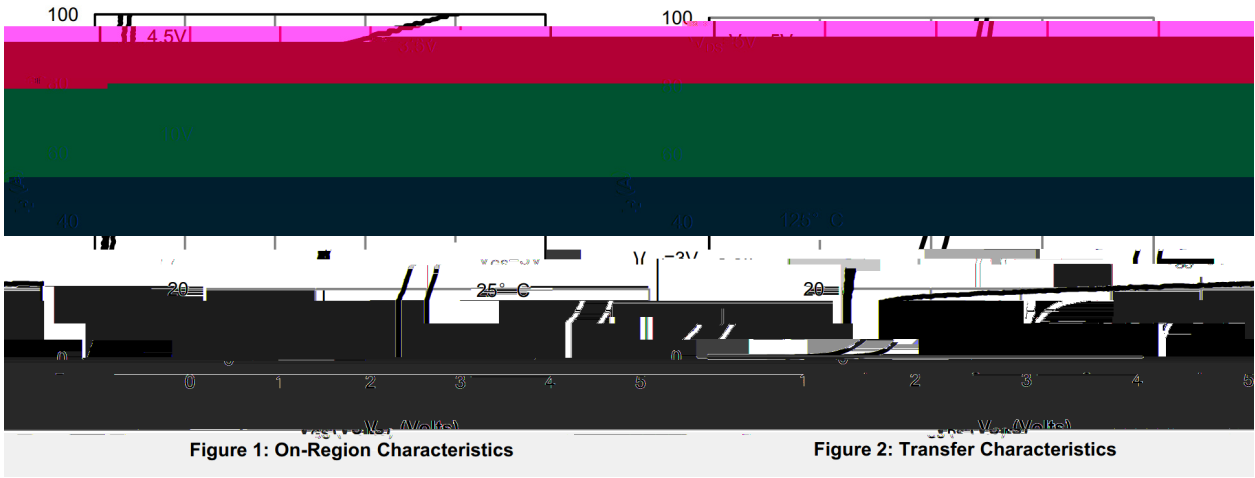
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DATA SHEET

/ 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

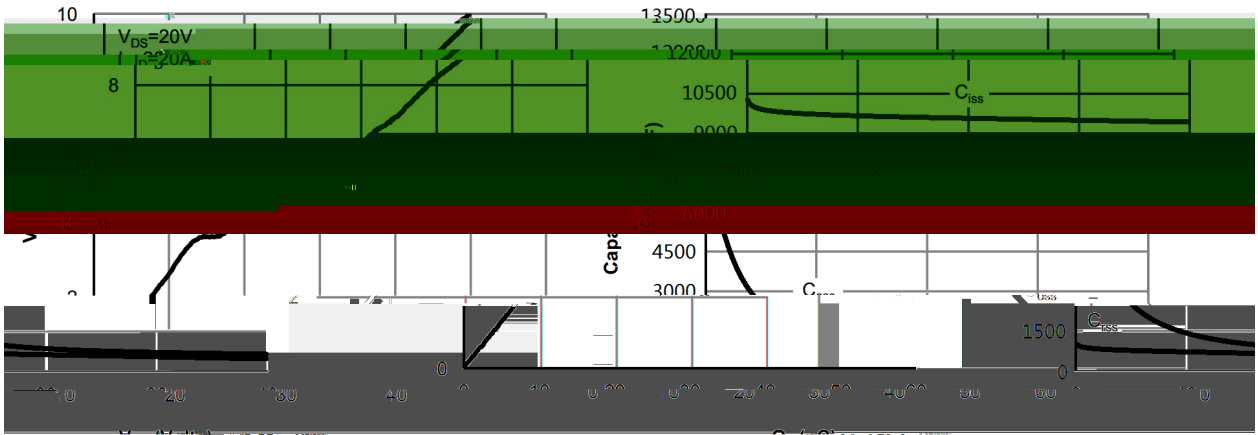


Figure 6: Capacitance C_{iss} Characteristics

Figure 7: Capacitance C_{oss} Characteristics

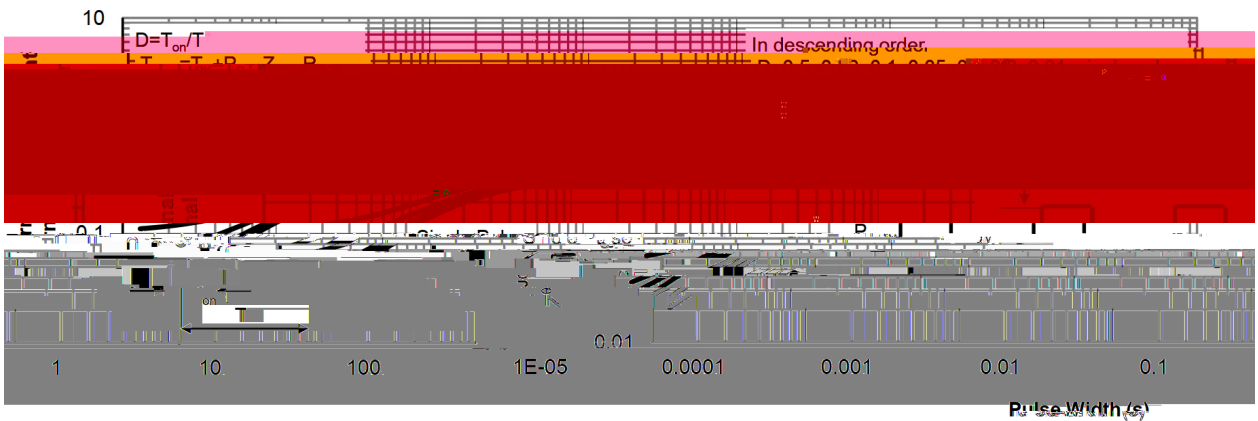
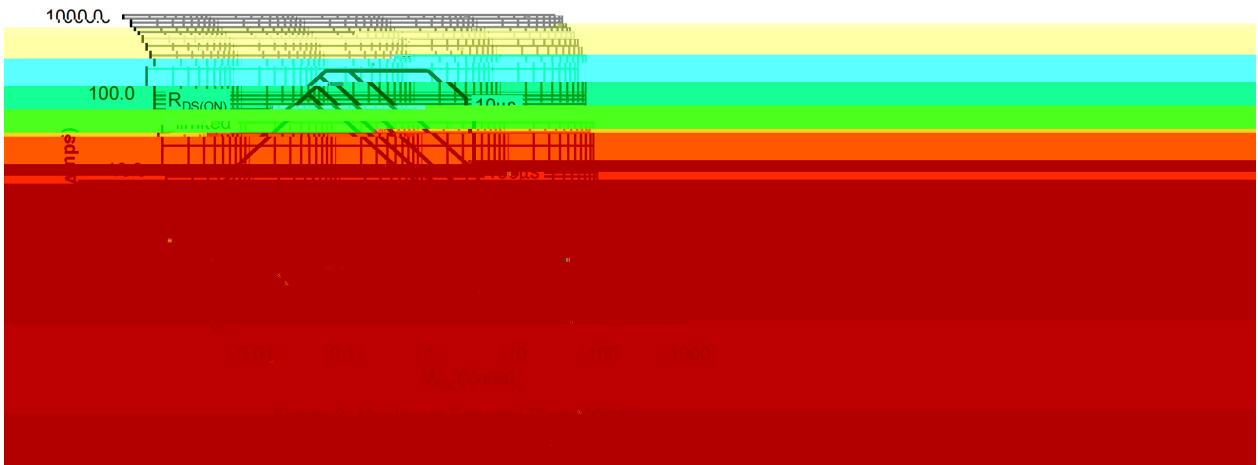
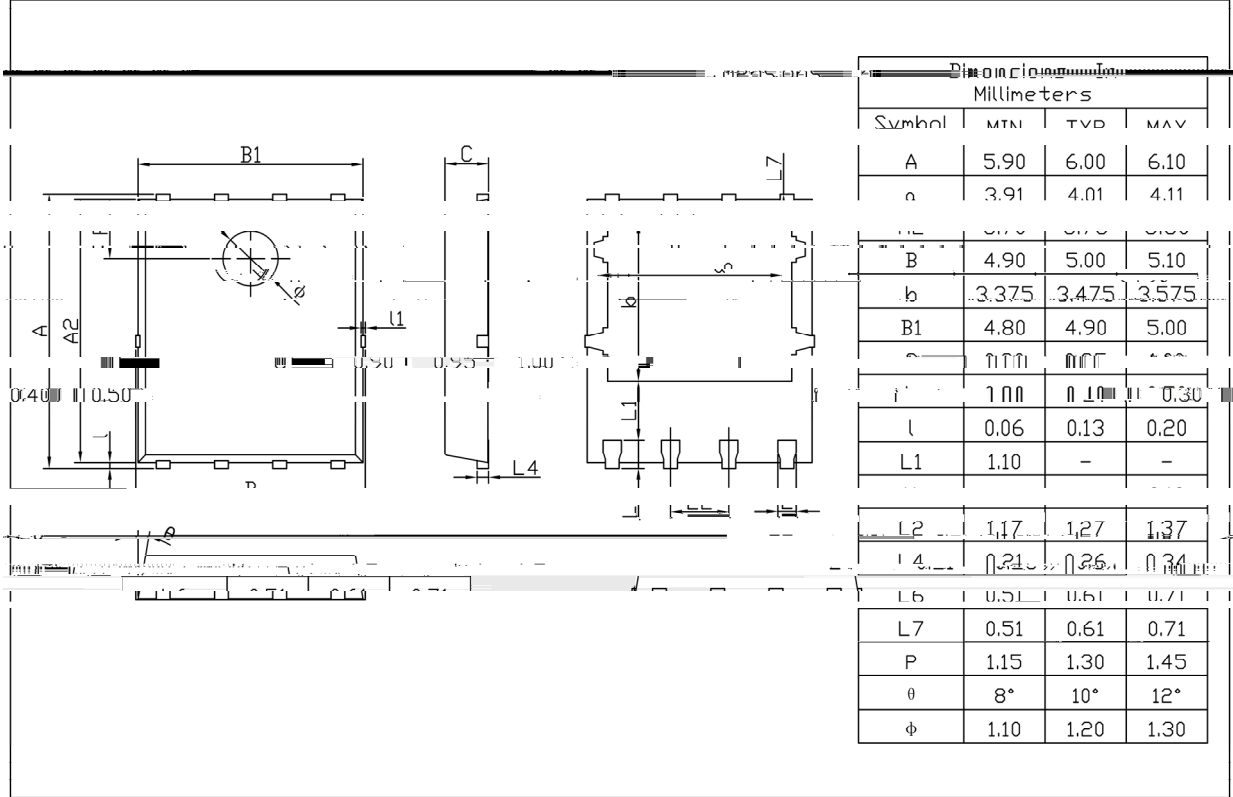


Figure 10: Normalized Maximum Transient Thermal Impedance $Z_{th}(j\omega)$ Characteristics

/ Package Dimensions

PDFN5 X6

Unit:mm



Rev.01 202209

/ Marking Instructions



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035N04S

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Note

BR Company Code

035N04S 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
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/ Packaging SPEC.

/ REEL

Package Type	Units	Dimension	(unit mm ³)
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