

BRCS100N10SHZC

Rev.C Apr.-2024

/ Descriptions

PDFN5×6 N
N-Channel MOSFET in a PDFN5×6 Plastic Package.

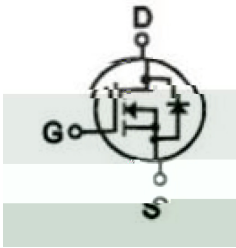
/ Features

$V_{DS} (V) = 100V$ $I_D = 62.5A$ ($V_{GS} = \pm 20V$)
 $R_{DS(ON)}@10V$ 10mR(Typ.8.9mR)
HF Product.

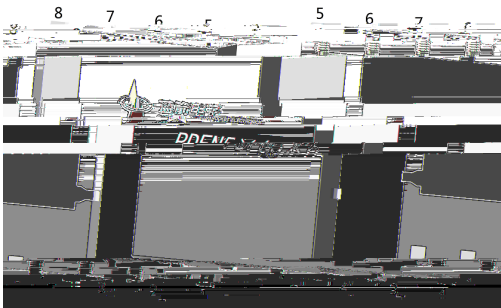
/ Applications

High Frequency Switching and Synchronous Rectification.

/ Equivalent Circuit



/ Pinning



PIN1 2 3 S PIN4 G PIN5 6 7 8 D

/ Marking

See Marking Instructions.

BRCS100N10SHZC

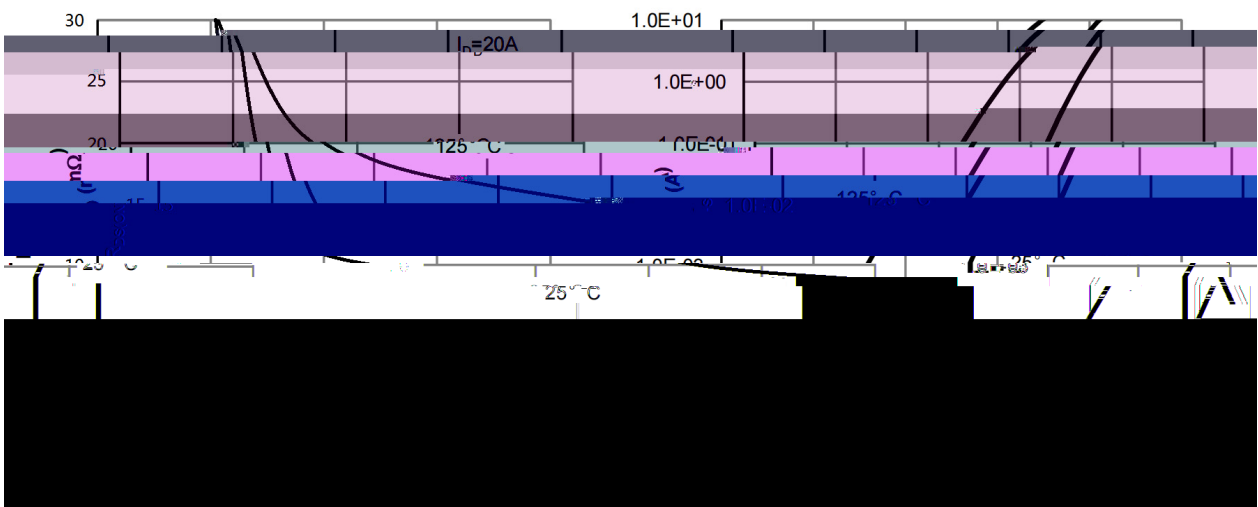
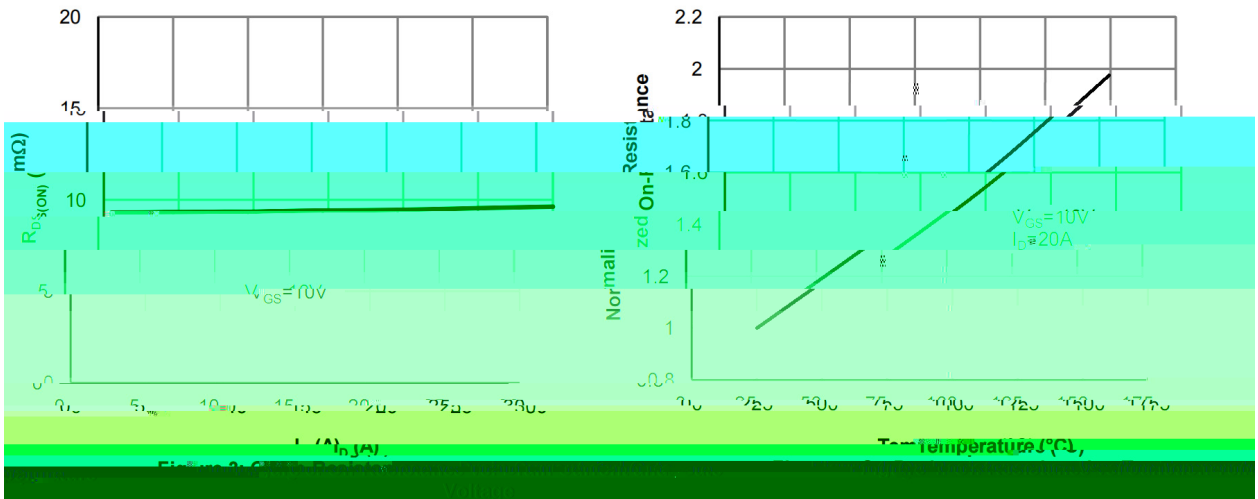
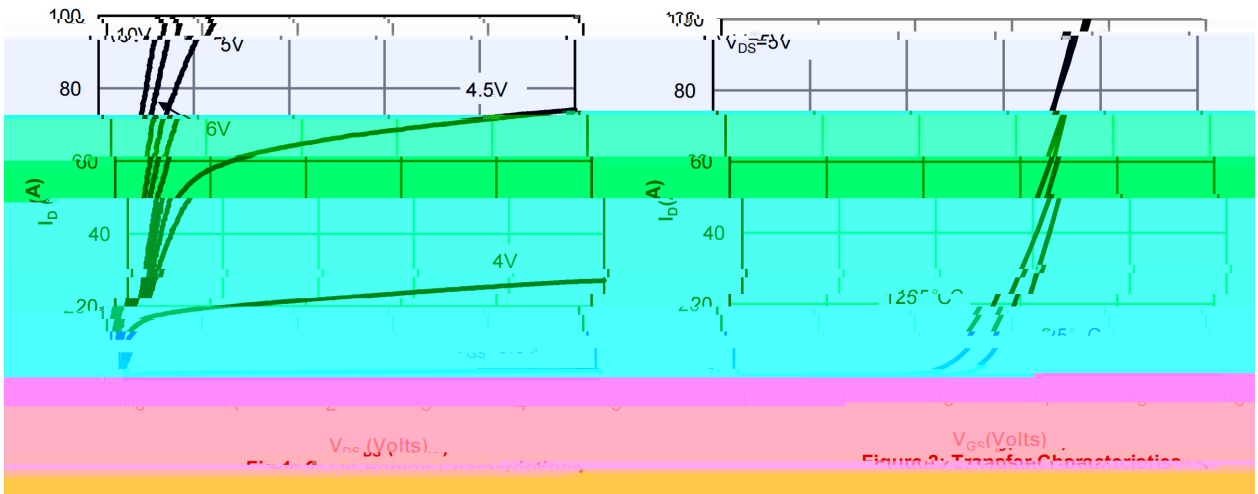
Rev.C Apr.-2024

DATA SHEET

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{D(on)}$	$V_{GS}=10V, V_{DS}=50V,$ $R_L=2.5, R_{GEN}=3$		8.5		ns
Turn-On Rise Time	t_r			3		
Turn-Off Delay Time	$t_{D(off)}$			23		
Turn-Off Fall Time	t_f			3.5		

/ Electrical Characteristic Curve



/ Electrical Characteristic Curve

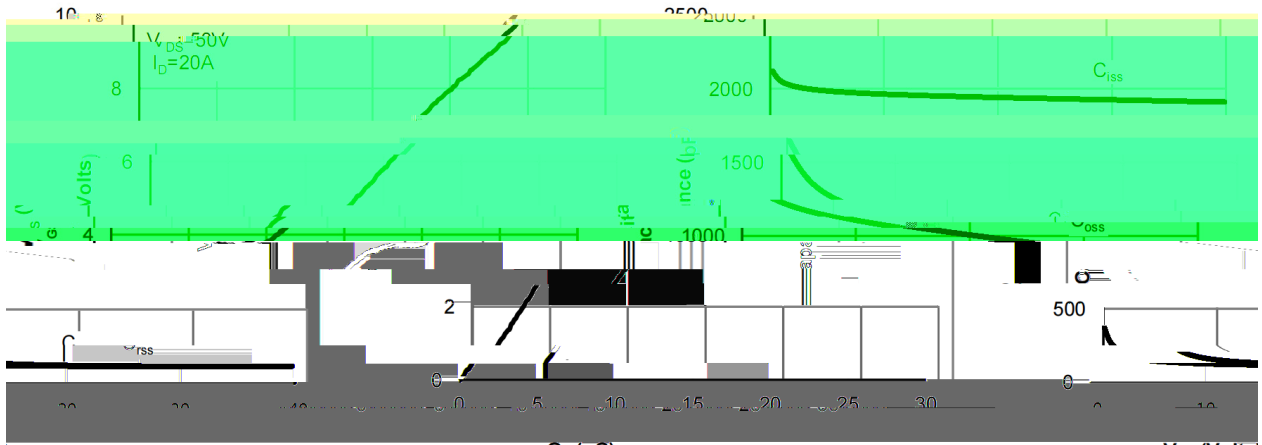


Figure 7: Gate-Charge Characteristics

Figure 8: Capacitance Characteristics

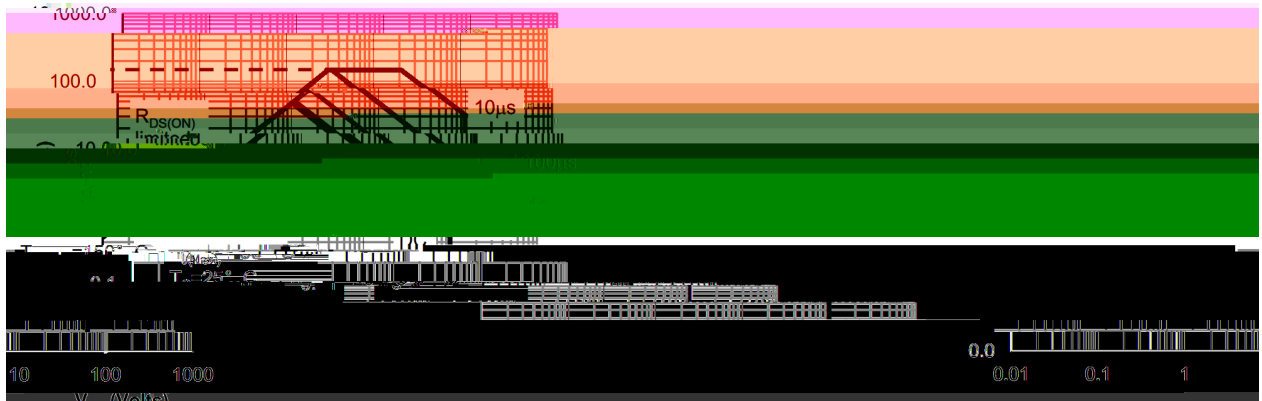


Figure 9: Maximum Forward Biased characteristics

Figure 9

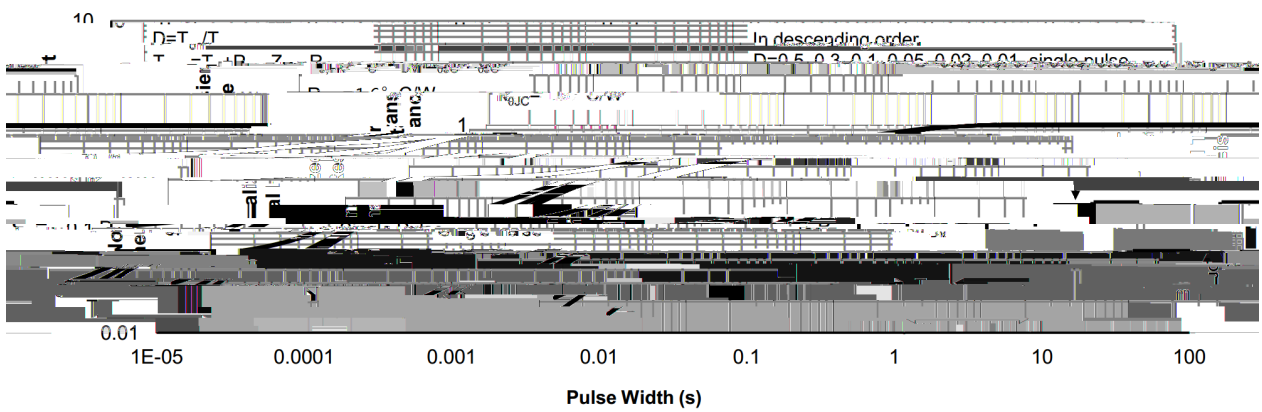
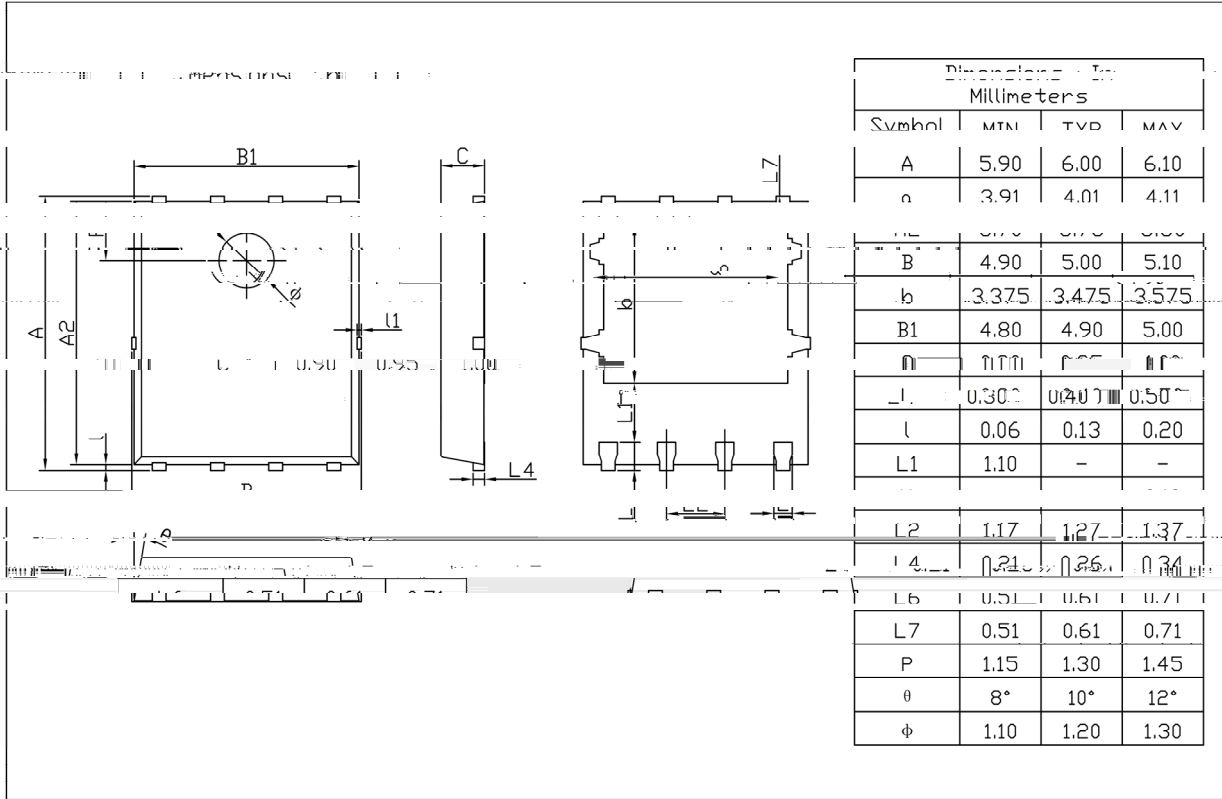


Figure 10: Maximum Transient Thermal Impedance

/ Package Dimensions

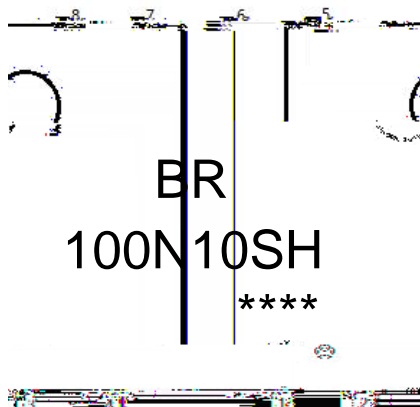
PDFN5 X6

Unit:mm



Rev.01 202209

/ Marking Instructions



BR

100N10SH

Note

BR

Company Code

100N10SH

Product Type Code

****:

Lot No. Code, code change with Lot No

BRCS100N10SHZC
Rev.C Apr.-2024