

# BRCS100N10SDP

Rev.A Jun.-2024

## / Descriptions

TO-252 N

N-CHANNEL MOSFET in a TO-252 Plastic Package.

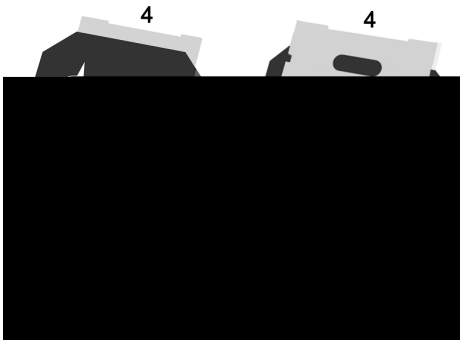
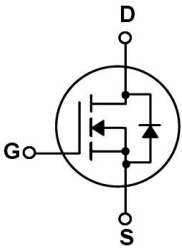
$V_{DS}=100V$   $I_D=60A$

$R_{DS(ON)}@10V$  10m (Typ.9m )

$R_{DS(ON)}@4.5V$  15m (Typ.11m )

HF Product.

High Frequency Switching and Synchronous Rectification.



PIN1 G

PIN 2 D

PIN 3 S

PIN 4 D

## / Marking

See Marking Instructions.



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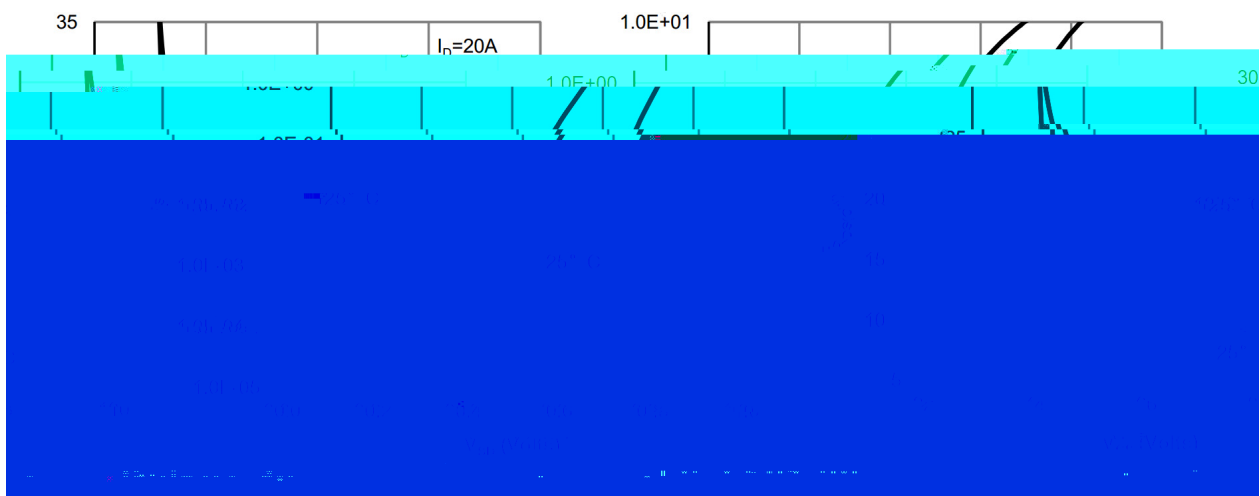
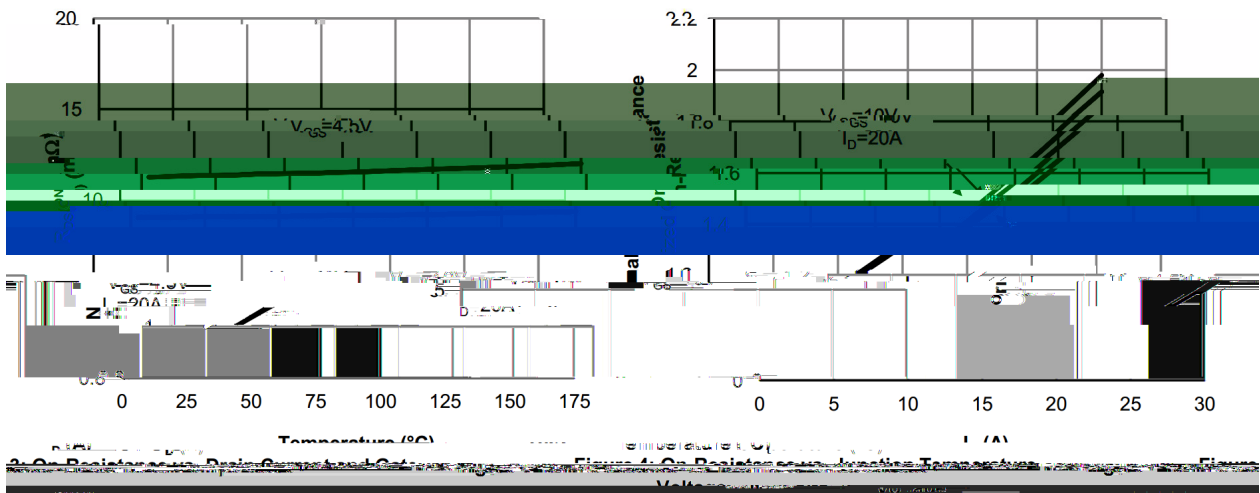
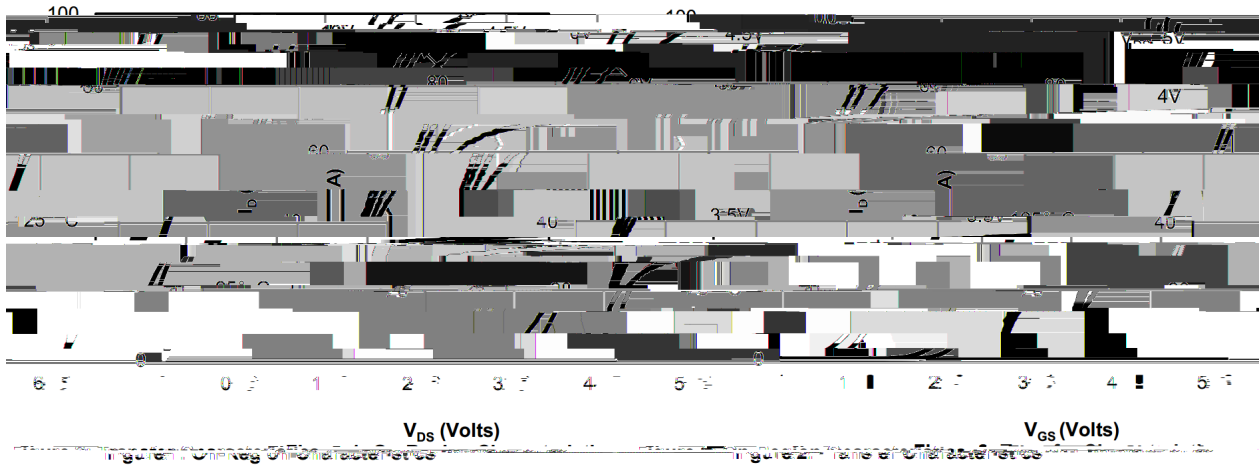
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DATA SHEET

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=10V$ $V_{DS}=50V$ $R_L=2.5$ $R_{GEN}=3$		8.7		ns
Turn-On Rise Time	$t_r$			3.5		
Turn-Off Delay Time	$t_{d(off)}$			25		
Turn-Off Fall Time	$t_f$			4.2		

**/ Electrical Characteristic Curve**



/ Electrical Characteristic Curve

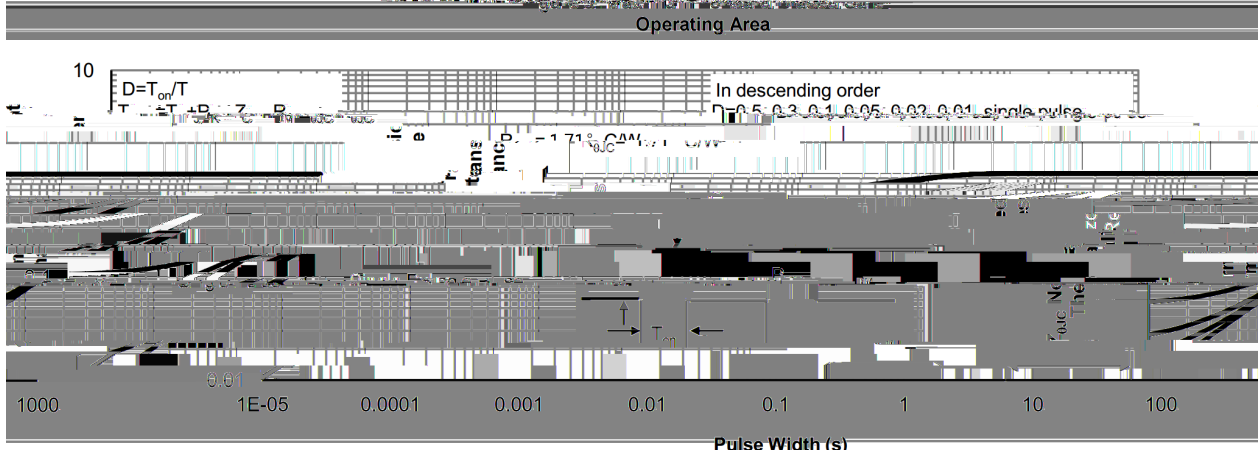
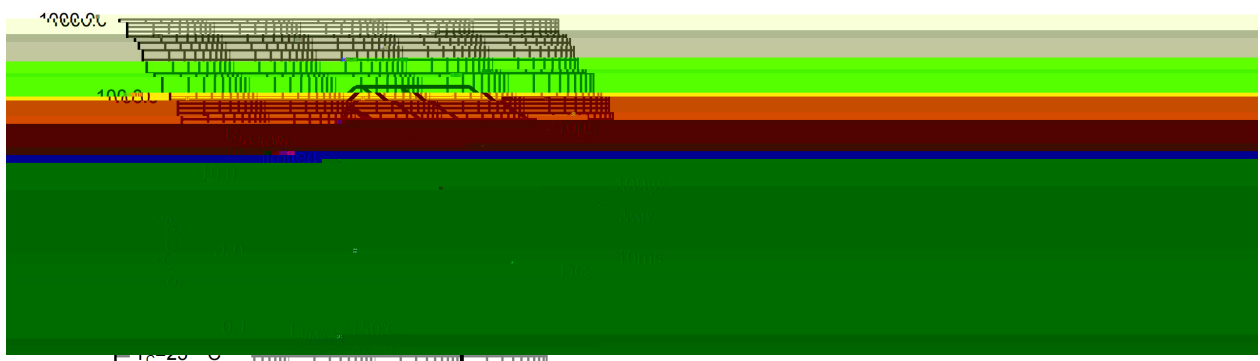
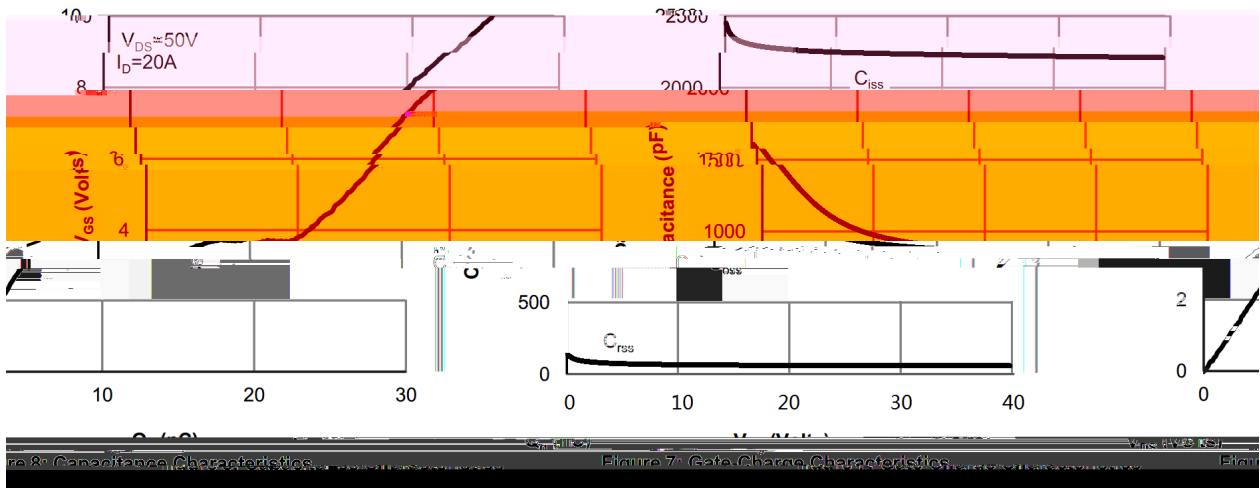
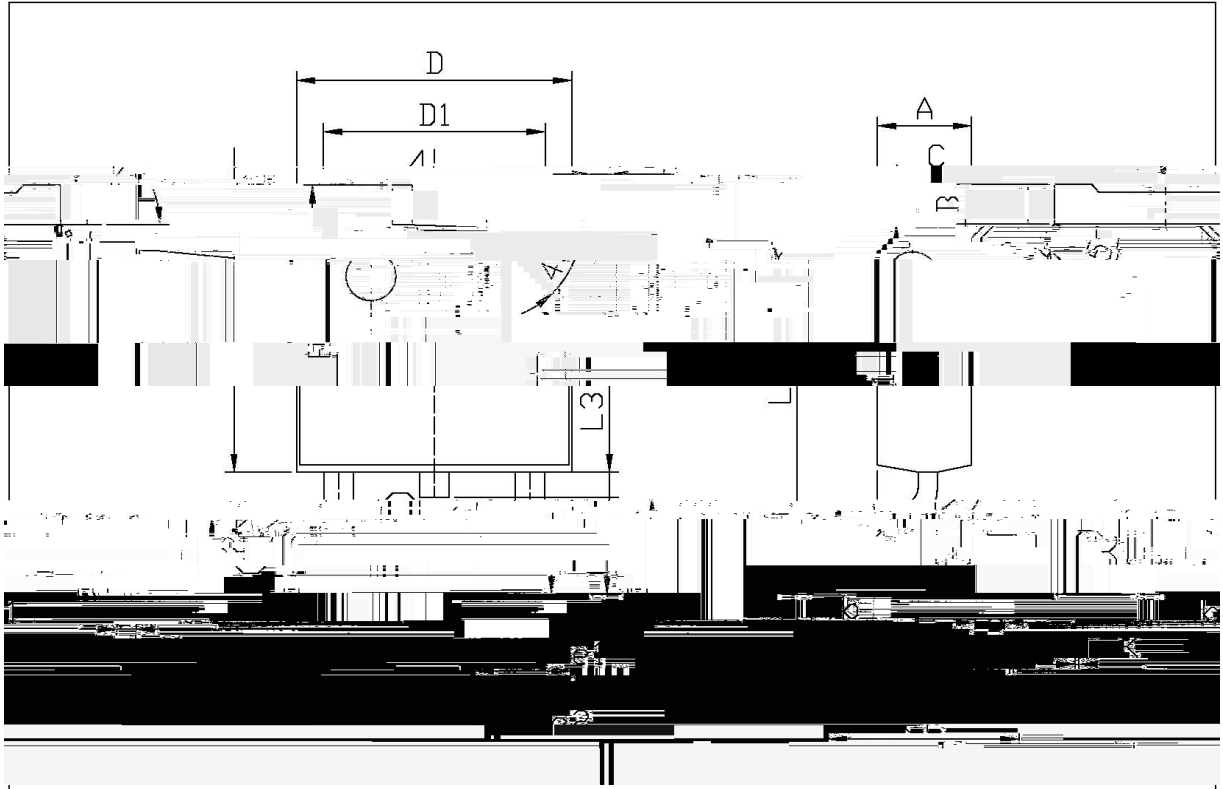


Figure 10: Normalized Maximum Transient Thermal Impedance

**/ Package Dimensions**

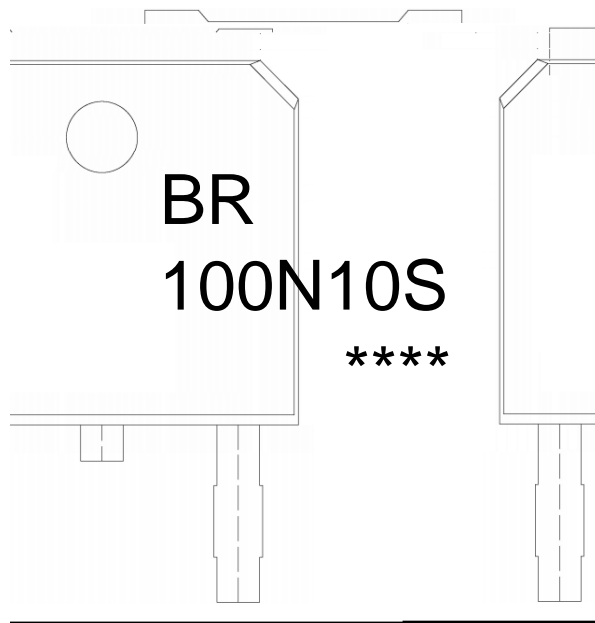


单位: mm

Dimensions		Millimeters		Dimensions		In Millimeters	
Min	Max	Min	Max	Min	Max	Min	Max
B	0.95	1.25	2.24	2.34			
C	0.70	0.70	1.70				
D	0.45	0.55	0.85	0.35			
H	0.60	0.60	6.65	6.75			
L3	0.70	0.70	5.10	5.50			

-252 T0

**/ Marking Instructions**



BR

100N10S

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Note:

BR: Company Code

100N10S: 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