

# BRCS900N10SYMQ

Rev.B Dec.-2023



DATA SHEET

PDFN5×6A                      N

Dual N-CHANNEL MOSFET in a PDFN5×6A Plastic Package.

$V_{DS}(V)=100V$                        $I_D=13.7A$

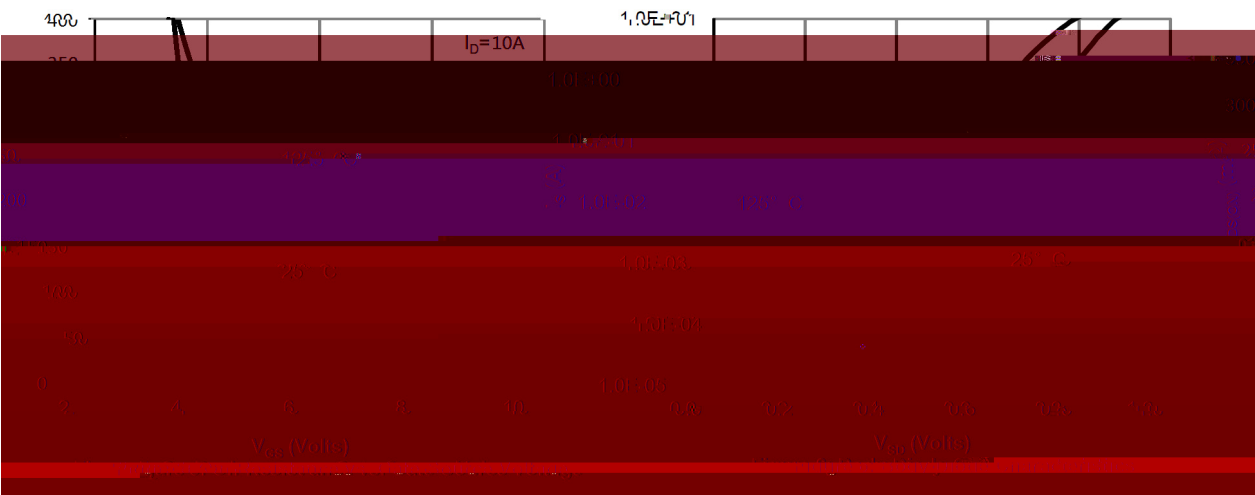
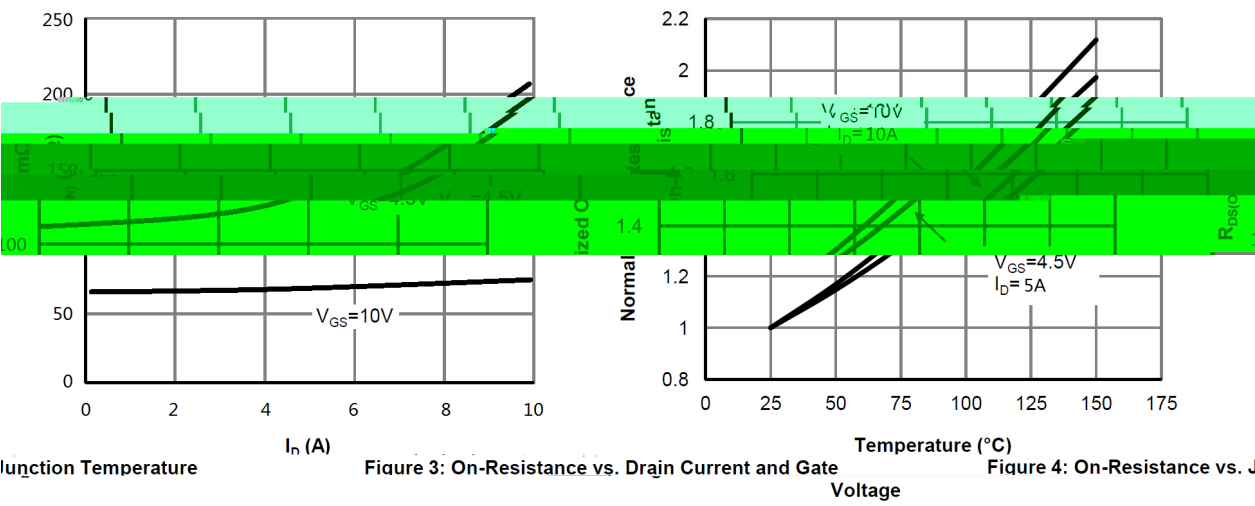
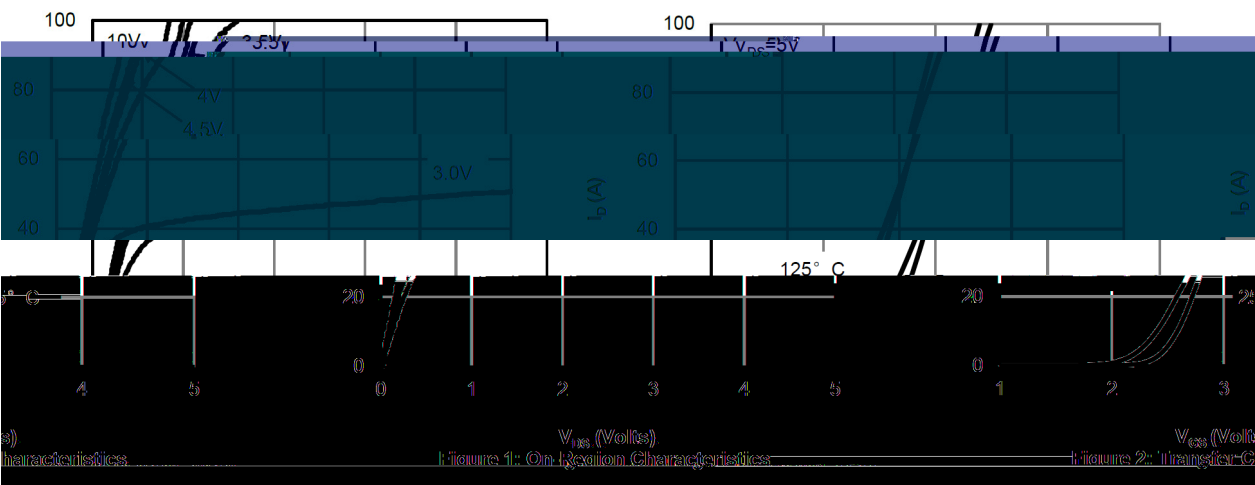
R



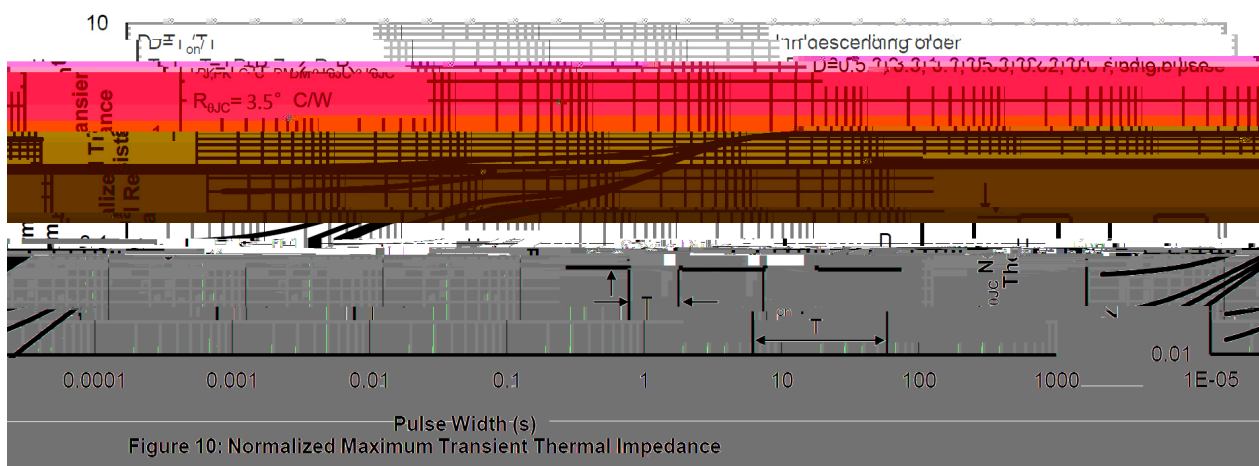
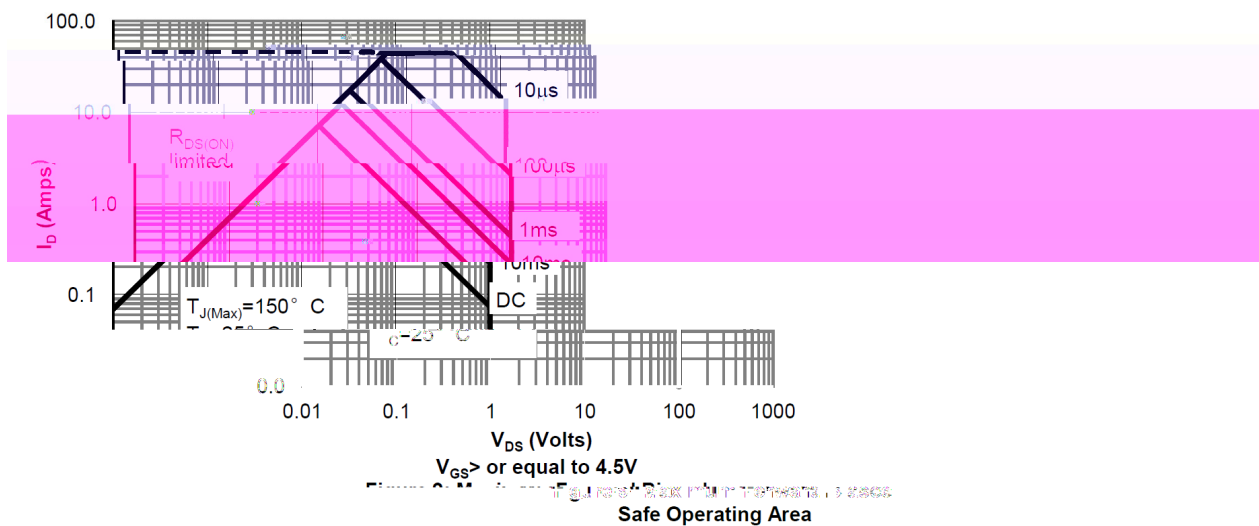
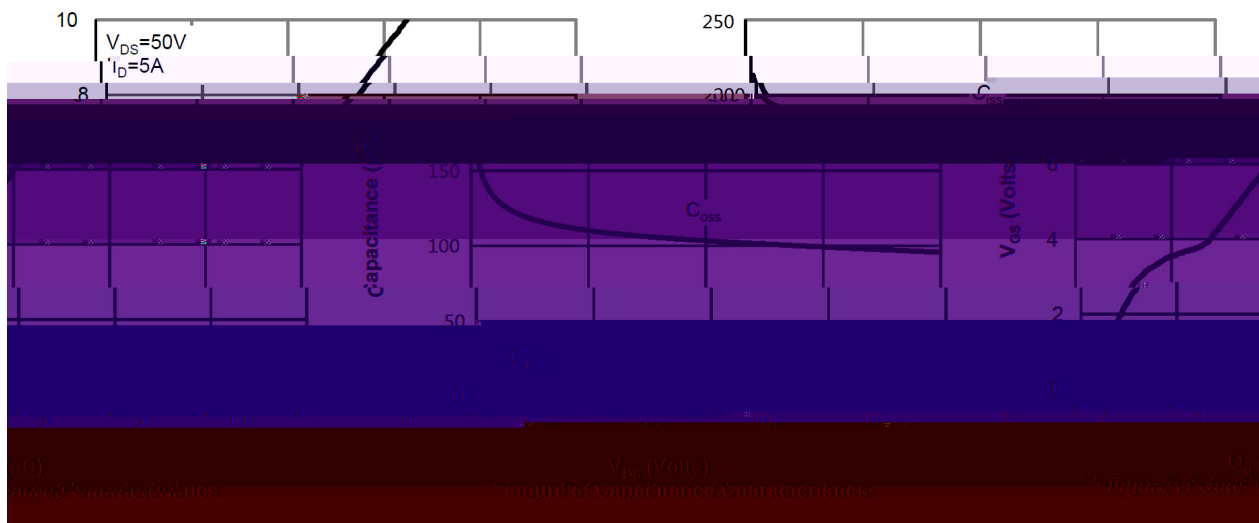
**/ Electrical Characteristics(Ta=25 )**

| Parameter           | Symbol       | Test Conditions                                                   | Min | Typ | Max | Unit |
|---------------------|--------------|-------------------------------------------------------------------|-----|-----|-----|------|
| Turn-On Delay Time  | $t_{d(on)}$  | $V_{GS}=10V$ $V_{DS}=50V$<br>$R_L=10\ \Omega$ $R_{GEN}=3\ \Omega$ |     | 4   |     | ns   |
| Turn-On Rise Time   | $t_r$        |                                                                   |     | 2   |     |      |
| Turn-Off Delay Time | $t_{d(off)}$ |                                                                   |     | 15  |     |      |
| Turn-Off Fall Time  | $t_f$        |                                                                   |     | 2   |     |      |

Electrical Characteristic Curve



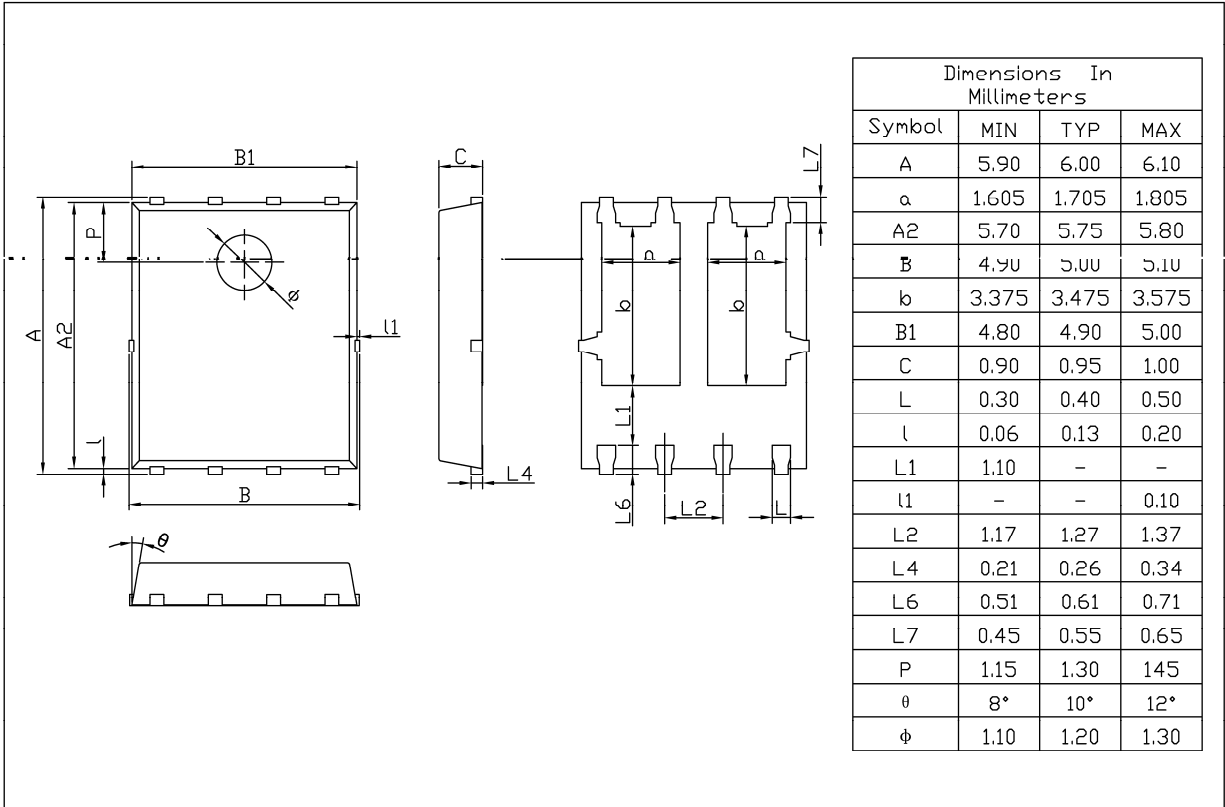
/ Electrical Characteristic Curve



I Package Dimensions

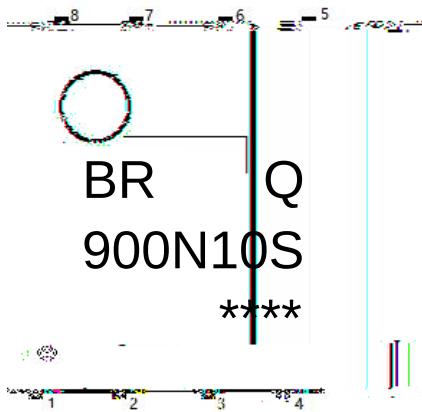
PDFN5 X6A

Unit:mm



Rev.01 202209

/ Marking Instructions



BR

Q

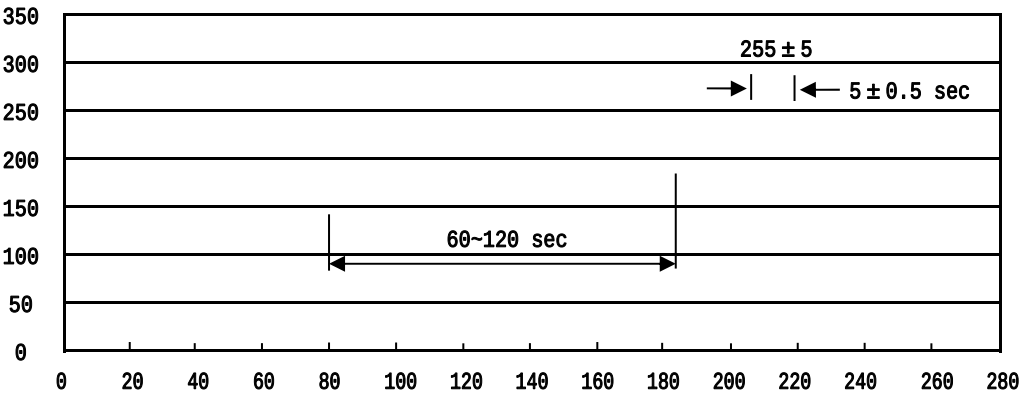
900N10S

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Note

|         |                                       |
|---------|---------------------------------------|
| BR      | Company Code                          |
| Q:      | Automobile halogen-free product Code  |
| 900N10S | Product Type Code                     |
| ****:   | Lot No. Code, code change with Lot No |

(     ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

150 200

60 120sec;

1.Preheating:150~200 , Time:60~120sec.
- 2

255±5

5±0.5sec;

2.Peak Temp.:255±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 <sup>3</sup> ) |            |             |
|--------------|-------|---|--------|---|--------|-----------------------------------|------------|-------------|
|              | /     | / | /      | / | /      |                                   |            |             |
| PDFN5×6A     | 5,000 | 2 | 10,000 | 6 | 60,000 | 13"×12                            | 360×360×50 | 380×335×366 |

/ Notices