



# BRCS020N08SHTL

Rev.C Apr.-2025



蓝箭电子  
BLUE ROCKET ELECTRONICS

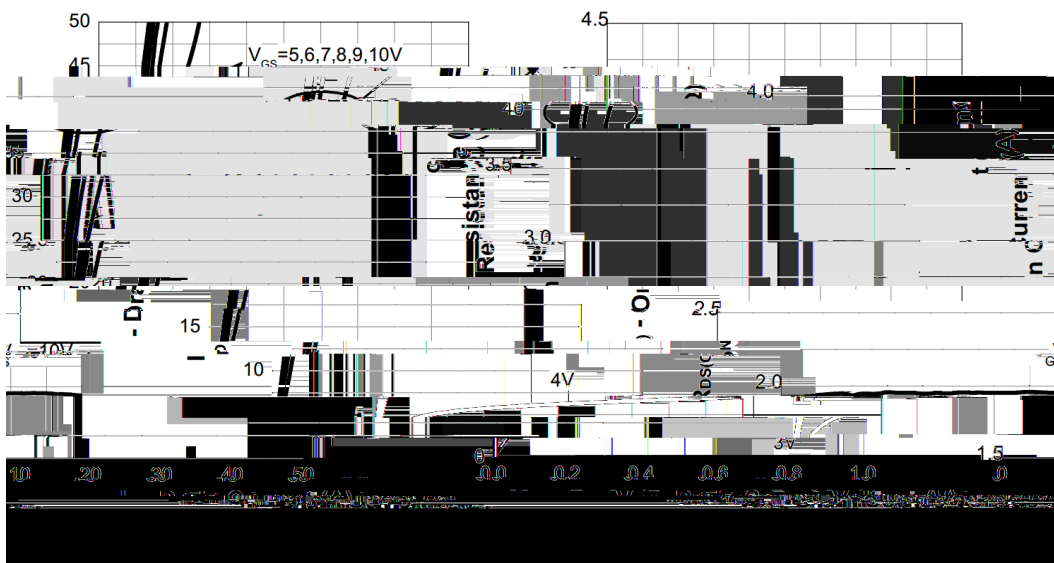
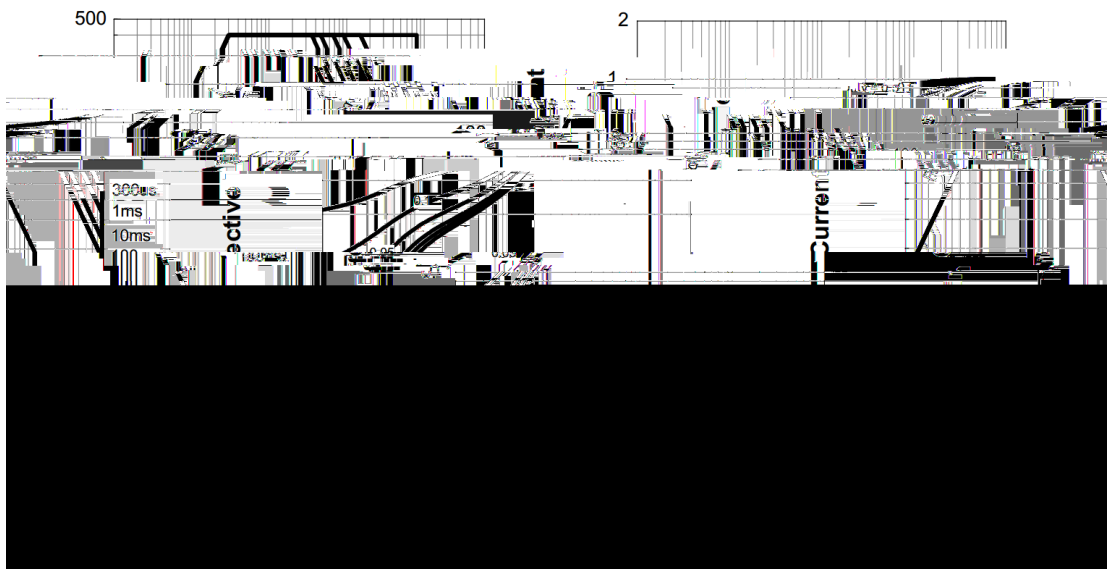
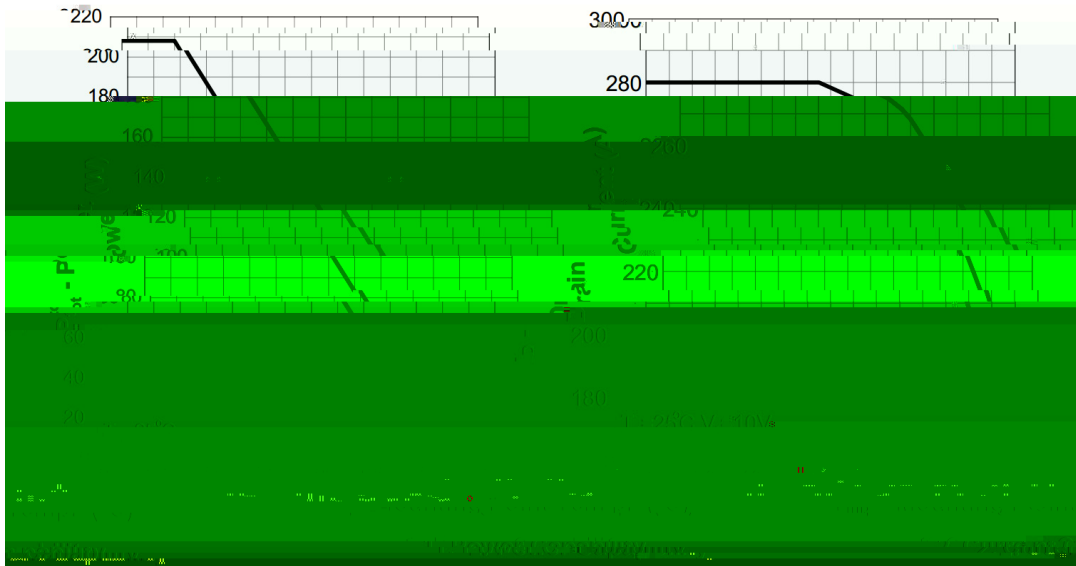
DATA SHEET

| Parameter            | Symbol | Rating | Unit |
|----------------------|--------|--------|------|
| Drain-Source Voltage | V      |        |      |

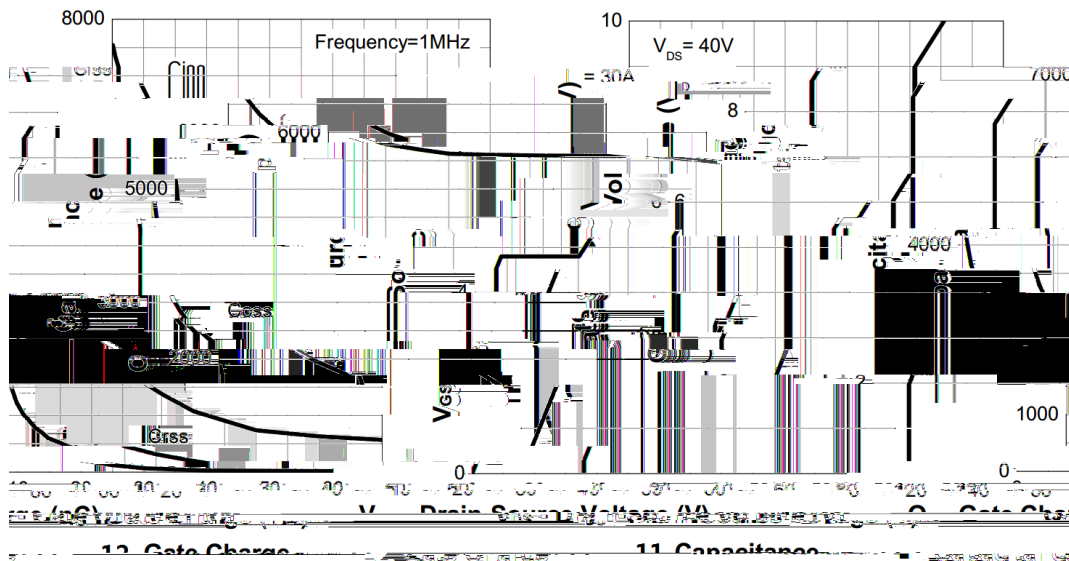
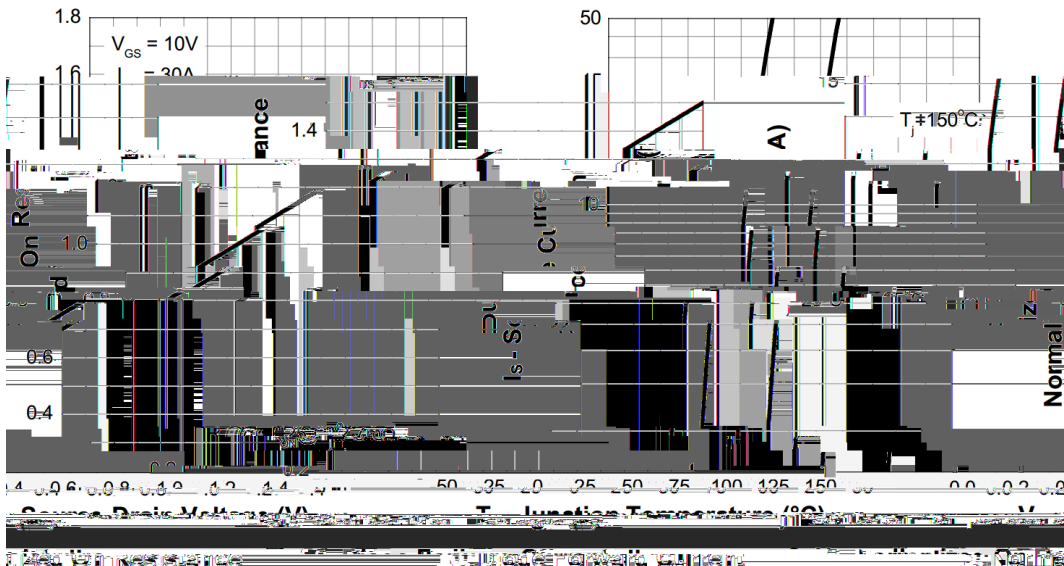
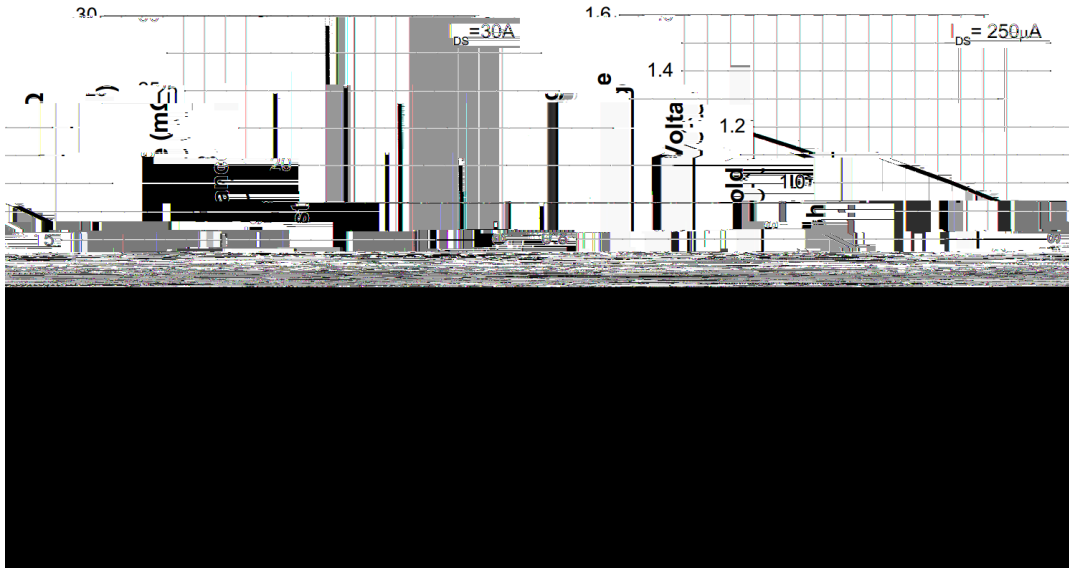
/ Electrical Characteristics(Ta=25 )

| Parameter               | Symbol       | Test Conditions  | Min | Typ | Max | Unit |
|-------------------------|--------------|--|-----|-----|-----|------|
| Turn-On Delay Time      | $t_{d(on)}$  | $V_{GS}=10V$ $V_{DS}=40V$<br>$R_L=1.3$ $R_G=4.5$<br>$I_{DS}=30A$ |     | 32  |     | ns   |
| Turn-On Rise Time       | $t_r$        |  |     | 115 |     |      |
| Turn-Off Delay Time     | $t_{d(off)}$ |  |     | 93  |     |      |
| Turn-Off Fall Time      | $t_f$        |  |     | 140 |     |      |
| Reverse Recovery Time   | $t_{rr}$     | $I_{DS} = 30 A, V_{GS} = 0 V$                                    |     | 80  |     | nS   |
| Reverse Recovery Charge | $Q_{rr}$     | $dI_{SD}/dt = 100 A/ s$  |     | 196 |     | nC   |

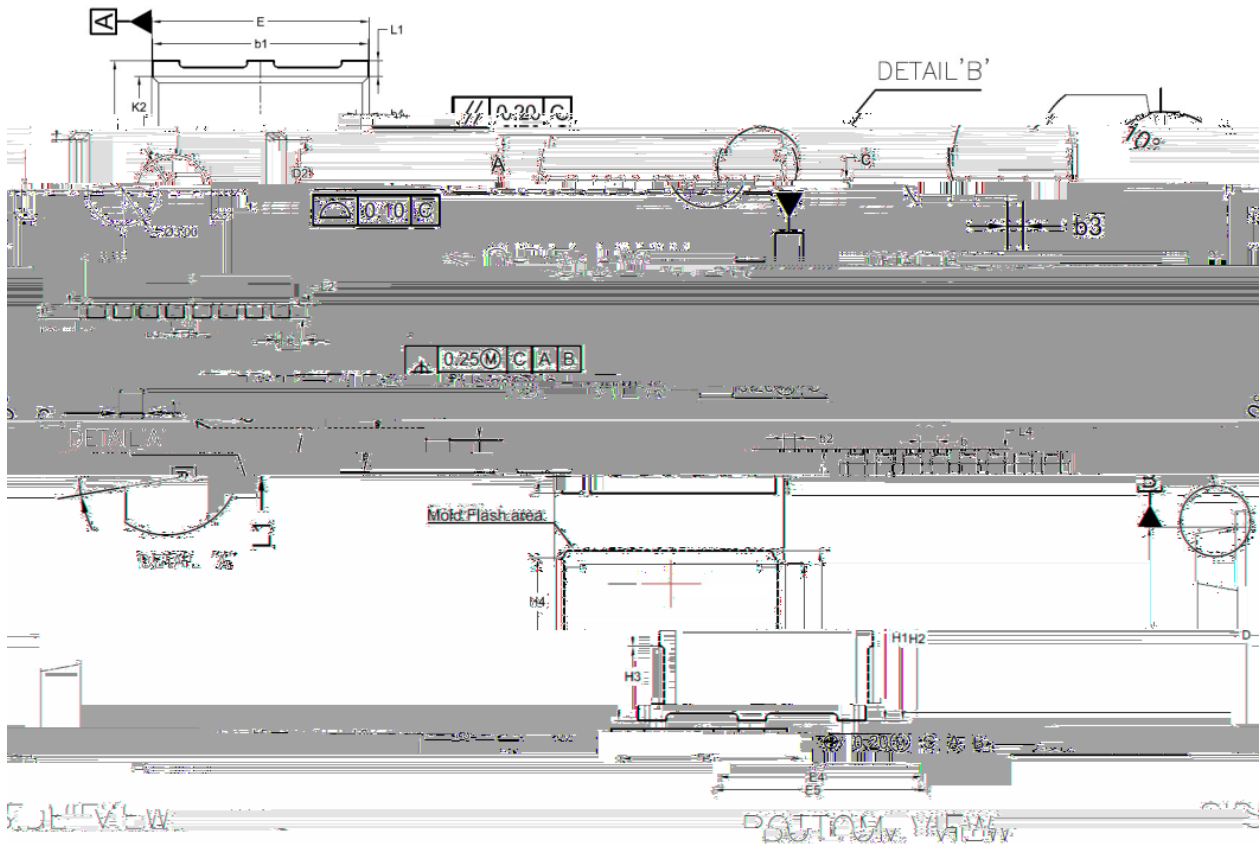
**/ Electrical Characteristic Curve**



/ Electrical Characteristic Curve

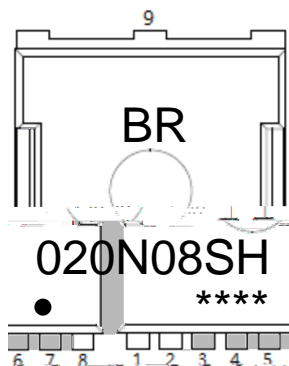


**/ Package Dimensions**



| Symbol | Dimensions In Millimeters |        |        | Symbol | Dimensions In Millimeters |       |       |
|--------|---------------------------|--------|--------|--------|---------------------------|-------|-------|
|        | MIN.                      | NOM.   | MAX.   |        | MIN.                      | NOM.  | MAX.  |
| A      | 2.200                     | 2.300  | 2.400  | b1     | 9.700                     | 9.800 | 9.900 |
| c      | 0.492                     | 0.500  | 0.508  | b1     | 0.420                     | 0.460 | 0.500 |
| D      | 10.280                    | 10.380 | 10.480 | b3     | 0.350                     |       |       |
| E      | 9.800                     | 9.900  | 10.000 | b4     | 0.600                     |       |       |
| e      | 1.20 BSC                  |        |        | b5     | 3.100                     |       |       |
| H      | 11.580                    | 11.680 | 11.780 | b6     | 1.200                     |       |       |
| H1     | 6.650                     | 6.750  | 6.850  | L      | 1.700                     | 1.900 | 2.100 |
| H2     | 7.300                     |        |        | L1     | 0.700                     |       |       |
| H3     | 3.200                     |        |        | L2     | 0.600                     |       |       |
| H4     | 3.800                     |        |        | L4     | 1.050                     | 1.150 | 1.250 |
| K1     | 4.180                     |        |        | L5     | 0.500                     | 0.600 | 0.700 |
| K2     | 2.900                     |        |        | E1     | 7.800                     |       |       |
| D2     | 3.300                     |        |        | E4     | 8.800                     |       |       |
| b      | 0.700                     | 0.800  | 0.900  | E5     | 9.200                     |       |       |

**/ Marking Instructions**



BR

020N08SH

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Note

BR                    Company Code

020N08SH        Product Type Code

\*\*\*\*:                Lot No. Code, code change with Lot No

