



| A | 19-05-20              |     |           |  |  |
|---|-----------------------|-----|-----------|--|--|
| B | 2019-6-1 <sup>4</sup> | 1   |           |  |  |
| C | 2021-3-1 <sup>4</sup> | ALL | ZM18503PA |  |  |
|   |                       |     |           |  |  |
|   |                       |     |           |  |  |

## / Descriptions

P TO-252

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

## / Features

$R_{DS(on)}$

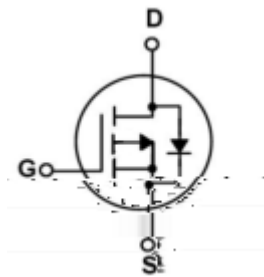
Low  $R_{DS(on)}$ , High Current Capability. Halogen-free Product.

## / Applications

/

AC-in load switch, Battery protection charge/discharge.

## / Equivalent Circuit



## / Pinning



PIN1 G

PIN 2 D

PIN 3 S

PIN 4 D

## / $h_{FE}$ Classifications & Marking

See Marking Instructions.

**BRCS40P03DP**

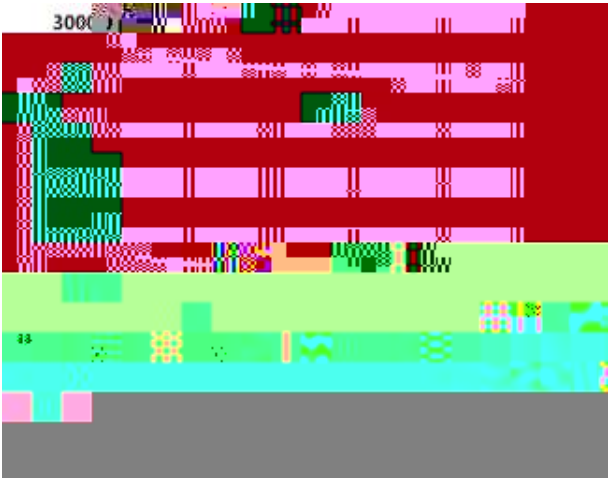
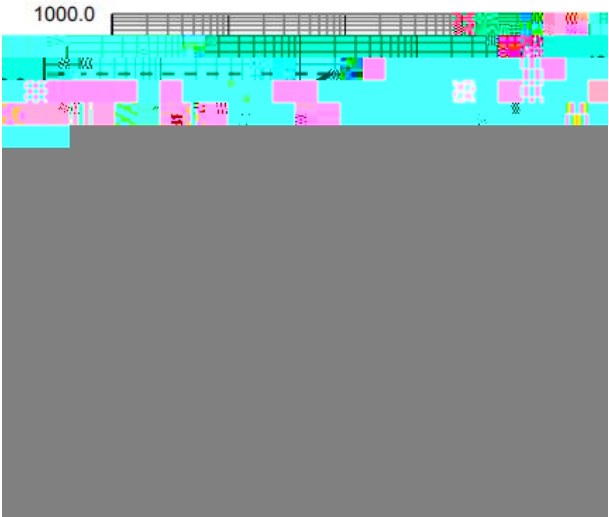


# DATA SHEET

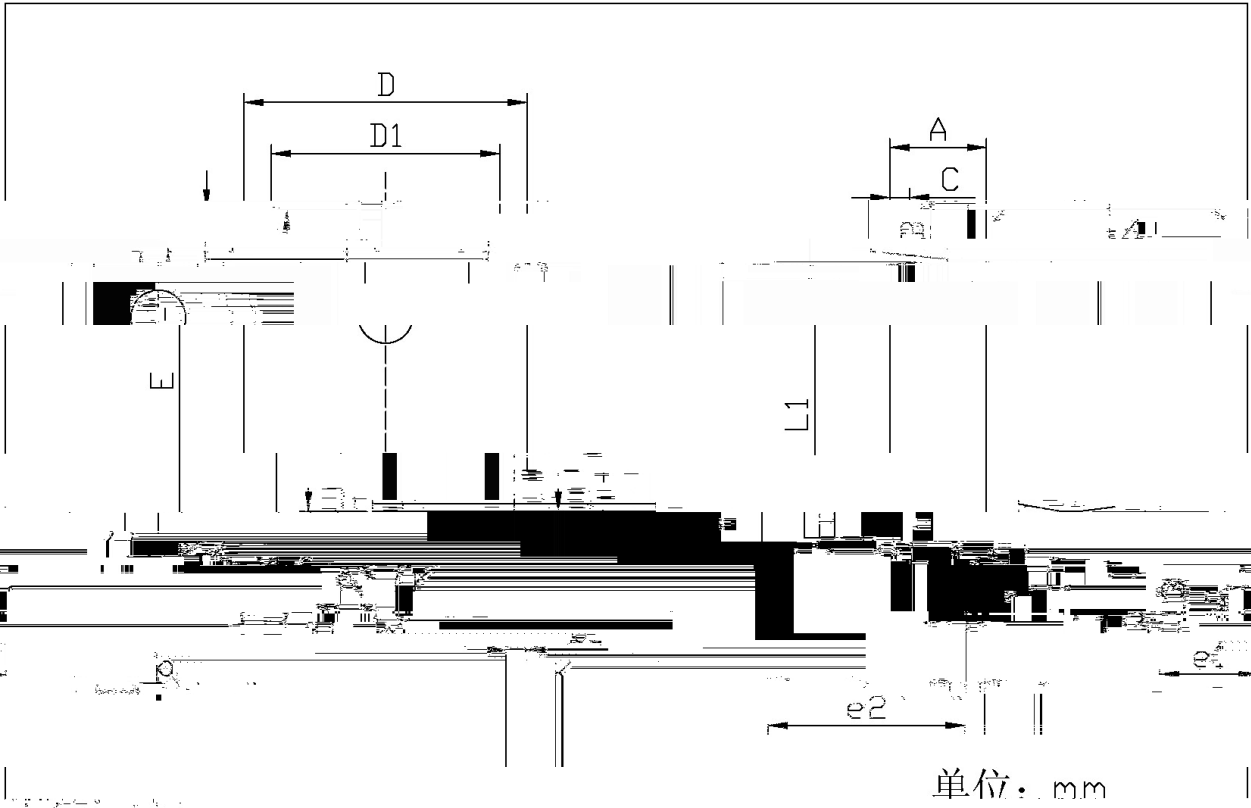
| Test Conditions                                    | Min | Typ  | Max | Unit     |
|----------------------------------------------------|-----|------|-----|----------|
| $V_{DS} = -0V$<br>$V_{GS} = 0V$<br>$f = 1.0MHz$    |     | 2530 |     | pF       |
|                                                    |     | 790  |     |          |
|                                                    |     | 450  |     |          |
| $V_{GS} = 0V$<br>$f = 1MHz$<br>$V_{DS} = 0V$       |     | 8    |     | $\Omega$ |
| $V_{GS} = -10V$<br>$V_{DS} = -15V$<br>$I_D = -20A$ |     | 50   | 70  | nC       |
|                                                    |     | 25   | 35  |          |
|                                                    |     | 9    |     |          |
|                                                    |     | 12   |     |          |
|                                                    |     |      |     |          |



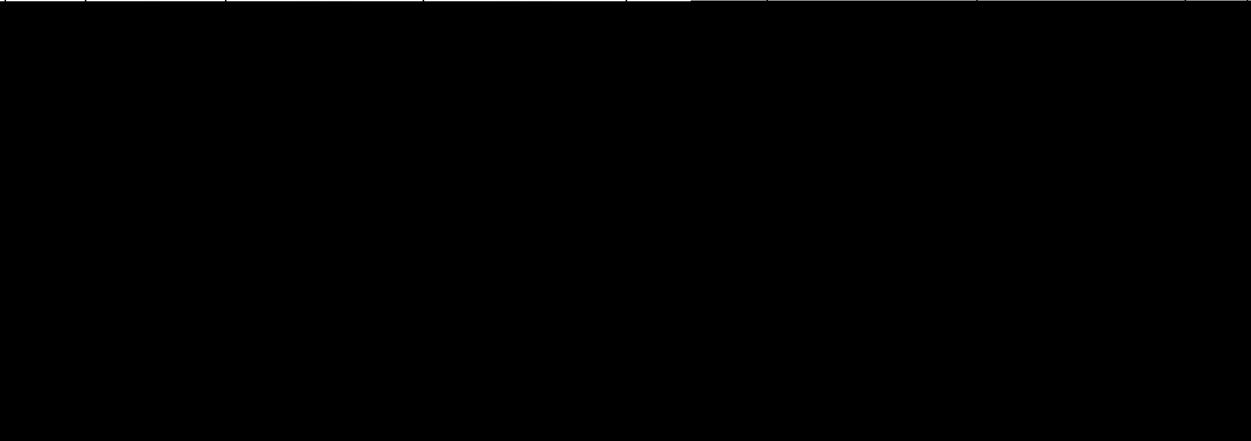
/ Electrical Characteristic Curve



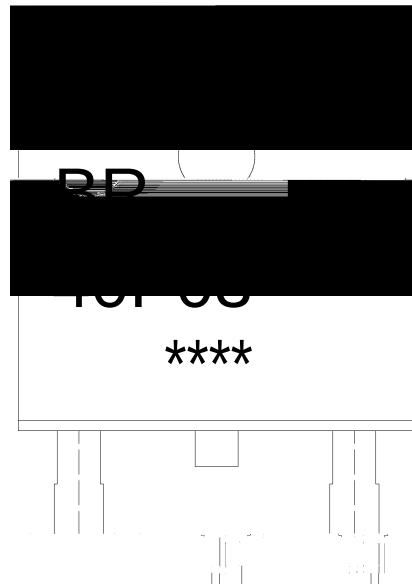
/ Package Dimensions



| Symbol                                                                              |    | Max  |      | Min                                                                                   |    |
|-------------------------------------------------------------------------------------|----|------|------|---------------------------------------------------------------------------------------|----|
|  | b  | 0.60 | 0.70 |  | e2 |
|  | b1 | 0.45 | 0.55 |  | L1 |
|  | L2 | 1.25 | 1.75 |  | C  |
|  | L3 | 0.60 | 0.80 |  | D  |



## / Marking Instructions



BR

40P03

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Note:

BR: Company Code

40P03: Product Type Code.

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

