

BRSMF5.0(C)AQ~BRSMF440(C)AQ

Rev.A Jun.-2025

DATA SHEET

| Type | | Marking | | V_{RWM} | Breakdown Voltage | | Test Current | Reverse Leakage | Max. Clamp Voltage | Peak Pulse Current |
|------|----|---------|----|-----------|-------------------|-----|--------------|-----------------|--------------------|--------------------|
| | | | | | $V_{BR@I_T}$ | | | | | |
| Uni | Bi | Uni | Bi | V | Min | Max | I_T | $I_R@V_{RWM}$ | $V_C@I_{PP}$ | I_{PP} |
| | | | | | V | V | mA | A | | |

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|-----------|------------|---------|------|------------------|--------------------|------|----------------|---------------------|--------------------|--------------------|
| | | | | | V _{BR@IT} | | I _T | I _{R@VRWM} | V _{C@IPP} | I _{PP} |
| | | | | | Min | Max | | | | |
| Uni | Bi | Uni | Bi | V | V | V | mA | A | V | A |
| BRSMF40AQ | BRSMF40CAQ | CRQ | CCRQ | 40 | 44.4 | 49.1 | 1 | 1 | 64.5 | 3.1 |
| BRSMF43AQ | BRSMF43CAQ | CTQ | CCTQ | 43 | 47.8 | 52.8 | 1 | 1 | 69.4 | 2.9 |
| BRSMF45AQ | BRSMF45CAQ | CVQ | CCVQ | 45 | 50 | 55.3 | 1 | 1 | 72.7 | 2.8 |
| BRSMF48AQ | BRSMF48CAQ | CXQ | CCXQ | 48 | 53.3 | 58.9 | 1 | 1 | 77.4 | 2.6 |
| BRSMF51AQ | BRSMF51CAQ | CZQ | CCZQ | 51 | 56.7 | 62.7 | 1 | 1 | 82.4 | 2.4 |
| BRSMF54AQ | BRSMF54CAQ | DEQ | CDEQ | 54 | 60 | 66.3 | 1 | 1 | 87.1 | 2.3 |
| BRSMF58AQ | BRSMF58CAQ | DGQ | CDGQ | 58 | 64.4 | 71.2 | 1 | 1 | 93.6 | 2.1 |
| BRSMF60AQ | BRSMF60CAQ | DKQ | CDKQ | 60 | 66.7 | 73.7 | 1 | 1 | 96.8 | 1.8 |
| BRSMF64AQ | BRSMF64CAQ | DMQ | CDMQ | 64 | 71.1 | 78.6 | 1 | 1 | 103 | 1.7 |

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| Type | | Marking | | Stand-off Voltage | Breakdown Voltage | | Test Current | Reverse Leakage | Max. Clamp Voltage | Peak Pulse Current |
|------------|-------------|---------|-------|-------------------|-------------------|--------------|--------------|-----------------|--------------------|--------------------|
| | | | | | V_{RWM} | $V_{BR@I_T}$ | | | | |
| | | | | Uni | | Bi | Uni | Bi | V | Min |
| | | | | V | V | V | mA | A | V | A |
| BRSMF250AQ | BRSMF250CAQ | E25Q | CE25Q | 250 | 279 | 309 | 1 | 1 | 405 | 0.5 |
| BRSMF300AQ | BRSMF300CAQ | E30Q | CE30Q | 300 | 335 | 371 | 1 | 1 | 486 | 0.45 |
| BRSMF350AQ | BRSMF350CAQ | E35Q | CE35Q | 350 | 391 | 432 | 1 | 1 | 567 | 0.4 |
| BRSMF400AQ | BRSMF400CAQ | E40Q | CE40Q | 400 | 447 | 494 | 1 | 1 | 648 | 0.35 |
| BRSMF440AQ | BRSMF440CAQ | E44Q | CE44Q | 440 | 492 | 543 | 1 | 1 | 713 | 0.3 |

0 ? d • Ž ø / Electrical Characteristic Curve

Ø □ =) ϕ / Package Dimensions

, M y f / Marking Instructions

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Note:

' + y Product Type Code

Q: Automobile halogen-free product Code

**** y Lot No. Code, code change with Lot No.

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Note:

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Q: Automobile halogen-free product Code

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DATA SHEET

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Note:

1o• Ä ½ “ † 150 ½200 - k ž • 60 ½120sec;

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

2o• Q › “ † 255 r5 - k ž • 4 Ò 5 r0.5sec;

2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.

3o•D N ò i Ò 0 , † 2 ½10 - /sec.

3. Cooling Speed: 2~10 - /sec.

ÂD /Cã p ~ »] / Resistance to Soldering Heat Test Conditions

“ † y 260 r5 -

ž • y 10 r1 sec.

Temp.:260±5

Time:10±1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type
7>û ~ E

Units ;>û !H

Dimension ;>û p . (unit Åmm³)