

BRSC04650ZC

Rev.A Jun.-2024

/ Descriptions

PDFN 5×6 SiC
SiC Schottky Barrier Diode in a PDFN 5×6 Plastic Package.

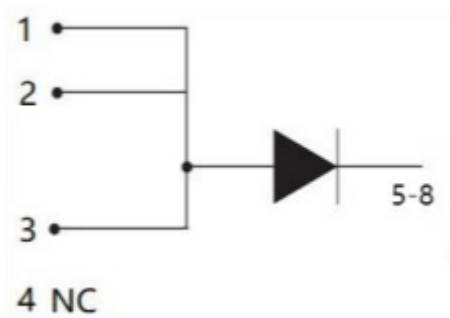
/ Features

Low power loss, high efficiency, HF Product.

/ Applications

For high frequency, high voltage, high current rectifier diode, freewheeling diode

/ Equivalent Circuit



/ Pinning



PIN 1,2,3 Anode PIN5-8 Cathode PIN 4 NC

/ Marking

See Marking Instructions.

BRSC04650ZC

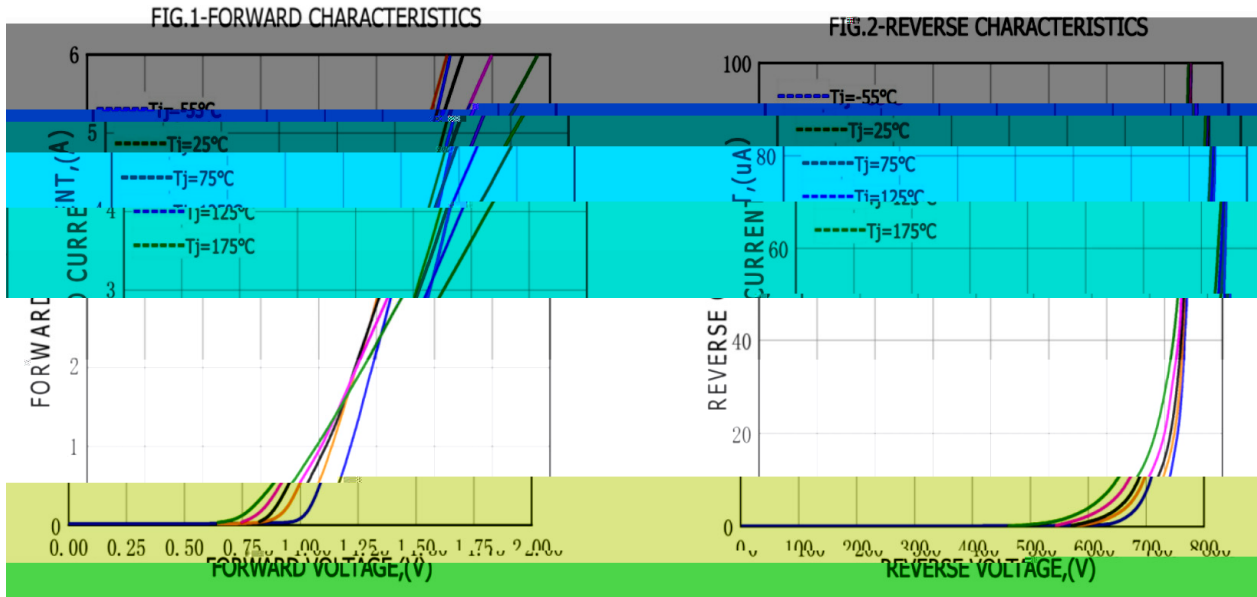
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DATA SHEET

| Parameter | Symbol | Rating | Unit |
|--|-----------|--------|------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 650 | V |
| Maximum RMS Voltage | V_{RMS} | 455 | V |
| Maximum DC blocking Voltage | V_{DC} | 650 | V |
| Continuous Forward Current, $T_C=155$ | I_F | 4 | A |
| Peak forward surge current, $t_p=10ms$ | I_{FSM} | 42 | A |

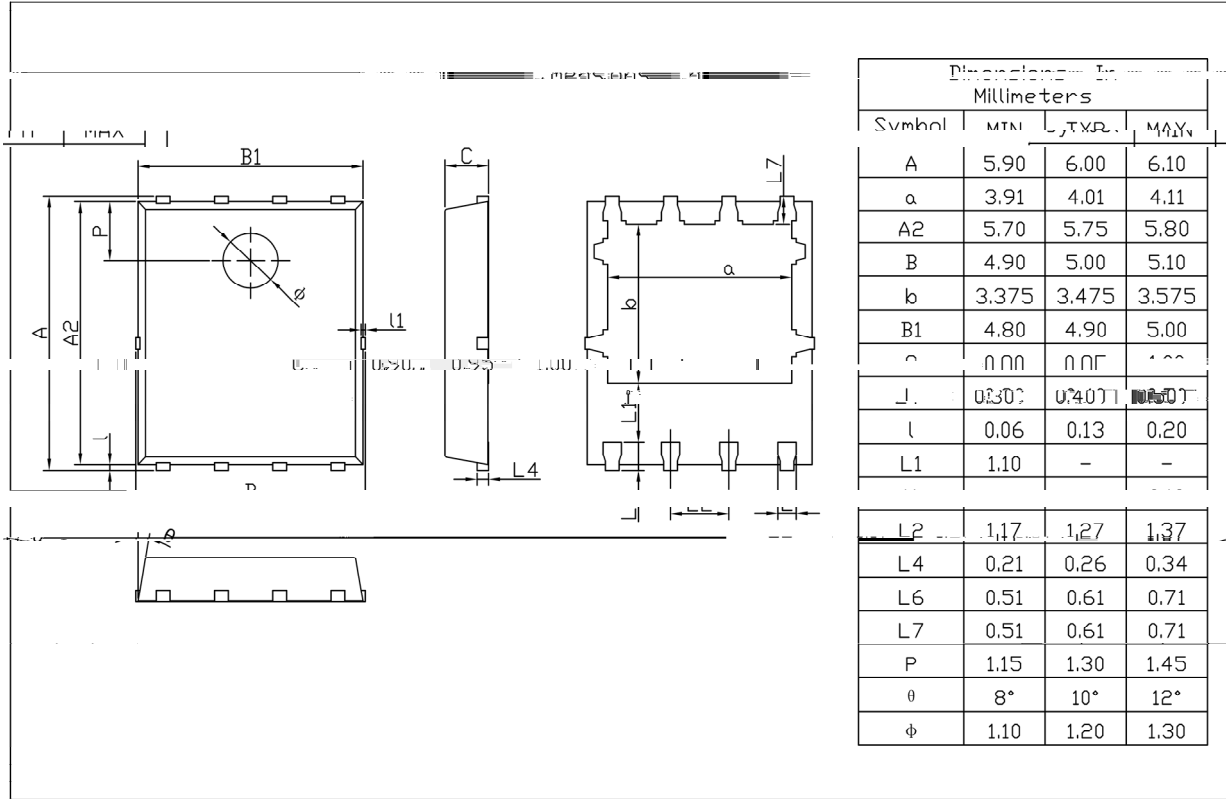
/ Electrical Characteristic Curve



/ Package Dimensions

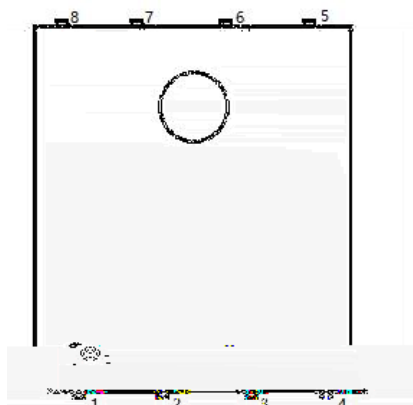
PDFN5 X6

Unit:mm



Rev.01 202209

/ Marking Instructions



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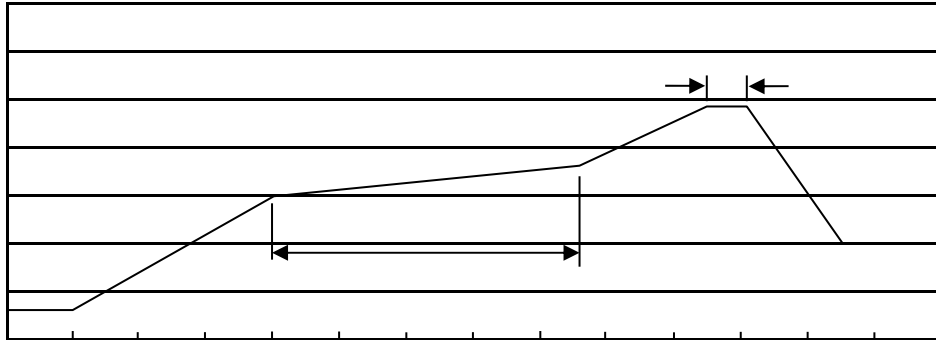
SC04650

Note

BR Company Code

SC04650 Product Type Code

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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

/ Packaging SPEC.

/ REEL

| Package Type | Units | | | | | Dimension (unit mm ³) | | |
|--------------|--------------|-------------------|-------------------|-------------------------|-------------------|-----------------------------------|------------|-------------|
| | Units/Reel / | Reels/Inner Box / | Units/Inner Box / | Inner Boxes/Outer Box / | Units/Outer Box / | Reel | Inner Box | Outer Box |
| PDFN5x6 | 5,000 | 2 | 10,000 | 6 | 60,000 | 13"x12 | 360x360x50 | 380x335x366 |

/ Notices