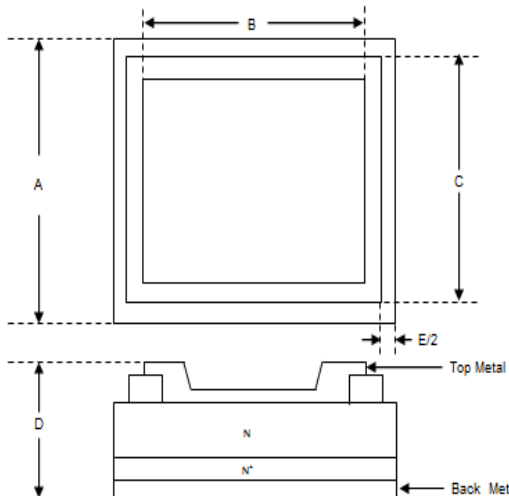


# BMA2100BG

100V, 20A<sup>(1)</sup>, TBR series Schottky

## Mechanical Data

| Chip Drawing   | Item  | Information  |            |
|--|---|--|------------|
|  | Die Size (A)                                | 2590 μm  | 102 mil    |
|  | Top Metal Pad Size (B)                      | 2405 μm  | 94.7 mil   |
|  | Passivation Seal (C)                        | 2510 μm  | 98.8 mil   |
|  | Wafer Thickness (D)                         | 254±15 μm  | 10±0.6 mil |
|  | Scribe Line Width (E)                       | 80μm   | 3.15 mil   |
|  | Wafer Diameter                              | 6 inch   |            |
|  | Gross Die                                   | 2296   |            |
|  | Top Side Metallization/<br>Layer Thickness  | Ag / 3 ±0.3 μm   |            |
|  | Back Side Metallization/<br>Layer Thickness | Ag / 2 ±0.2 μm   |            |
|  | Recommended<br>Storage Environment          | Store in original container, in dry nitrogen, (6 months at an ambient temperature of 23°C±3°C) |            |

## Electrical Characteristics in C/P test (T<sub>J</sub>=25°C)

| Parameter                         | Description                       | Min.               | Typ. | Max. | Unit | Test Condition                      |
|-----------------------------------|-----------------------------------|--------------------|------|------|------|-------------------------------------|
| V <sub>BR</sub>                   | Reverse Breakdown Voltage         | 100                | —    | —    | V    | I <sub>R</sub> = 300μA              |
| V <sub>F</sub>                    | Instantaneous Forward Voltage     | —                  | 0.45 | 0.47 | V    | I <sub>F</sub> = 3A <sup>(2)</sup>  |
|                                   |                                   | —                  | 0.59 | 0.63 | V    | I <sub>F</sub> = 10A <sup>(2)</sup> |
| I <sub>R</sub>                    | Reverse Leakage Current           | —                  | 37   | 50   | μA   | V <sub>R</sub> = 100V               |
| T <sub>J</sub> , T <sub>STG</sub> | Operating and Storage Temperature | -40°C to 150°C Max |      |      |      |                                     |