

**SCHOTTKY DIE SPECIFICATION**

TYPE: MBR10100

General Description: 100 V 10 A ( Low Ir)

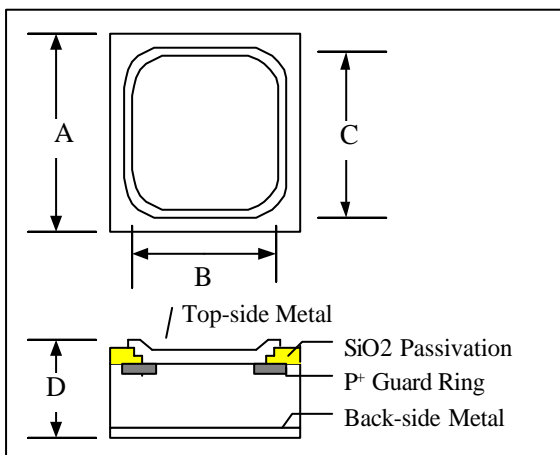
Single Anode

| ELECTRICAL CHARACTERISTICS                  | SYM    | Spec. Limit | Die Sort | UNIT |
|---|--------|-------------|----------|------|
| DC Blocking Voltage: Ir=1mA(for wafer form) | VRRM   | 100         | 105      | Volt |
| Ir=0.5mA (for dice form)                    |        |             |          |      |
| Average Rectified Forward Current           | IFAV   | 10          |          | Amp  |
| Maximum Instantaneous Forward Voltage       |        |             |          |      |
| @ 10 Amperes, Ta=25°C                       | VF MAX | 0.83        | 0.82     | Volt |
| @ 20 Amperes, 25°C                          |        | 0.94        | 0.93     |      |
| Maximum Instantaneous Reverse Voltage       |        |             |          |      |
| VR= 100 Volt, Ta=25°C                       | IR MAX | 0.1         | 0.09     | mA   |
|   |        |             |          |      |
| Maximum Junction Capacitance @ 0V, 1MHZ     | Cj MAX |             |          | pF   |
| <b>MAXIMUM RATINGS</b>                      |        |             |          |      |
| Nonrepetitive Peak Surge Current            | IFSM   | 200         |          | Amp  |
| Operating Junction Temperature              | Tj     | -65 to +125 |          | °C   |
| Storage Temperatures                        | TSTG   | -65 to +125 |          | °C   |

Specification apply to die only. Actual performance may degrade when assembled.

MEMT does not guarantee device performance after assembly.

Data sheet information is subjected to change without notice.

**DICE OUTLINE DRAWING**


| DIM | ITEM               | um <sup>2</sup> | Mil <sup>2</sup> |
|-----|--------------------|-----------------|------------------|
| A   | Die Size           | 2590            | 101.97           |
| B   | Top Metal Pad Size | 2490            | 98.0             |
| C   | Passivation Seal   | 2510            | 98.8             |
| D   | Thickness (Min)    | 254             | 10               |
|     | Thickness (Max)    | 305             | 12               |

**PS:**

(1)Cutting street width is around 80um(3.14mil).

(2)Both of top-side and back-side metals are Ti/Ni/Ag.