

**SCHOTTKY DIE SPECIFICATION**

TYPE: MBR240

General Description: 40 V 2 A (Low Ir)

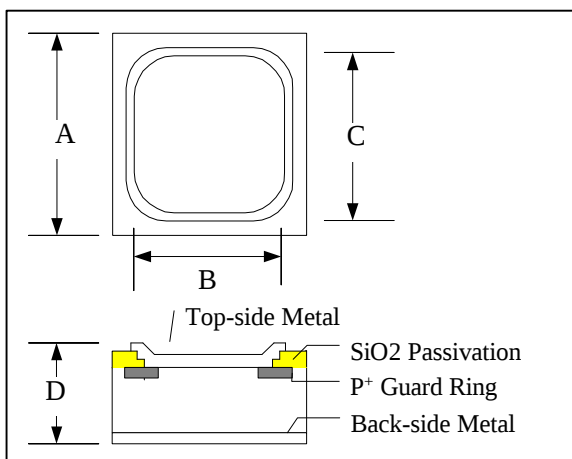
Single Anode

| ELECTRICAL CHARACTERISTICS                  | SYM    | Spec. Limit | Die Sort | UNIT |
|---------------------------------------------|--------|-------------|----------|------|
| DC Blocking Voltage: Ir=1mA(for wafer form) | VRRM   | 40          | 42.5     | Volt |
| Ir=0.5mA (for dice form)                    |        |             |          |      |
| Average Rectified Forward Current           | IFAV   | 2           |          | Amp  |
| Maximum Instantaneous Forward Voltage       |        |             |          |      |
| @ 2 Amperes, Ta=25°C                        | VF MAX | 0.55        | 0.48     | Volt |
| Maximum Instantaneous Reverse Voltage       |        |             |          |      |
| VR= 40 Volt, Ta=25°C                        | IR MAX | 0.1         | 0.08     | mA   |
| Maximum Junction Capacitance @ 0V, 1MHZ     | Cj MAX |             |          | pF   |
| <b>MAXIMUM RATINGS</b>                      |        |             |          |      |
| Nonrepetitive Peak Surge Current            | IFSM   | 60          |          | Amp  |
| Operating Junction Temperature              | Tj     | -65 to +150 |          | °C   |
| Storage Temperatures                        | TSTG   | -65 to +150 |          | °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          | 1245            | 49.01            |
| B   | Top Metal Pad Siz | 1025            | 40.3             |
| C   | Passivation Seal  | 1203            | 41.1             |
| 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/N