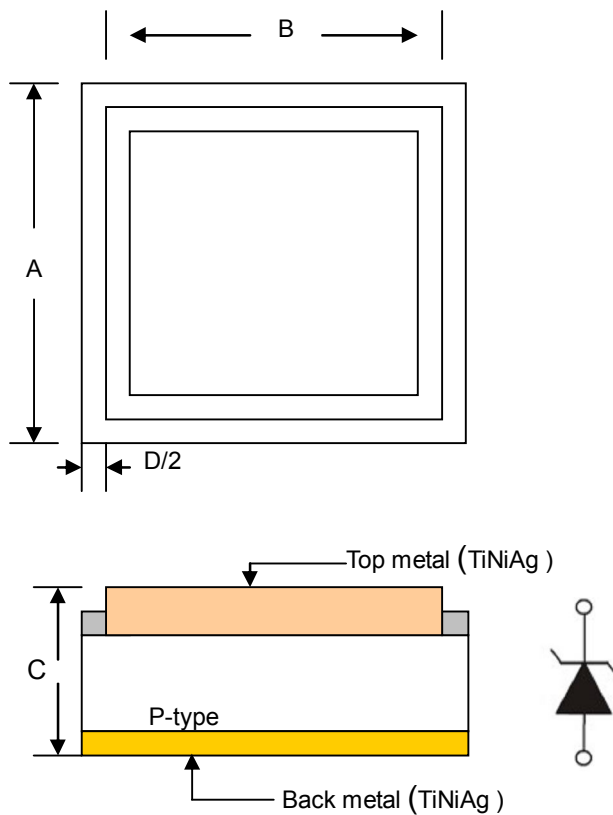


## 400W Planar TVS



| Item                     | Dimensions |      |
|--------------------------|------------|------|
|                          | um         | mil  |
| Die Size ( A )           | 1270       | 50   |
| Top Metal (Ag)           | 1205       | 47.4 |
| Top Metal Pad size ( B ) |            |      |
| Wafer Thickness ( C )    | 250±20     | 9.84 |
| Scribe Line Width ( D )  | 50         | 1.96 |
| Other Information        |            |      |
| Wafer Size               | 6"         |      |
| Gross Die                | 10100      |      |
| Back Side Metal          | TiNiAg     |      |

### Absolute Maximum Ratings ( Ta=25°C unless otherwise specified )

| Parameter  | Symbol                          | Value       | Unit |
|--|---------------------------------|-------------|------|
| Peak Pulse Power Dissipation with a 10/1000 $\mu$ s Waveform | P <sub>PPM</sub>                | 400         | W    |
| ESD per IEC 61000-4-2 ( Air )                                | V <sub>ESD</sub>                | ± 30        | KV   |
| ESD per IEC 61000-4-2 ( Contact )                            |                                 | ± 30        |      |
| Peak Forward Surge Current 8.3ms Single Half Sine-wave       | I <sub>FSM</sub>                | 50          | A    |
| Operating Junction and Storage Temperature Range             | T <sub>j</sub> T <sub>stg</sub> | -55 to +150 | °C   |

#### 400W Planar TVS ( Electrical Characteristics @TA=25°C )

| 品名         | Reverse Stand-off Voltage | Breakdown Voltage |        | Test Current   | Reverse Leakage                   | Max Clamp Voltage<br>10/1000us   | Peak Pulse Current<br>10/1000us |
|------------|---------------------------|-------------------|--------|----------------|-----------------------------------|----------------------------------|---------------------------------|
|            | V <sub>RWM</sub>          | V <sub>BR</sub>   |        | I <sub>T</sub> | I <sub>R</sub> @ V <sub>RWM</sub> | V <sub>c</sub> @ I <sub>pp</sub> | I <sub>pp</sub>                 |
|            |                           | Min[V]            | Max[V] | [mA]           | [uA]                              | [V]                              | [A]                             |
| CS50S3P3HG | 3.3                       | 5.22              | 5.98   | 10             | 30                                | 8.5                              | 47.1                            |
| CS50S5P0HG | 5.0                       | 6.42              | 6.98   | 10             | 15                                | 9.2                              | 43.5                            |
| CS50S6P0HG | 6.0                       | 6.69              | 7.35   | 10             | 5                                 | 10.3                             | 38.8                            |
| CS50S6P5HG | 6.5                       | 7.24              | 7.96   | 10             | 5                                 | 11.2                             | 35.7                            |
| CS50S7P0HG | 7.0                       | 7.80              | 8.58   | 10             | 5                                 | 12                               | 33.3                            |