

Protection of Voltage Sensitive Components.

#### FEATURES

- Low profile package.
- Transient protection for data line to

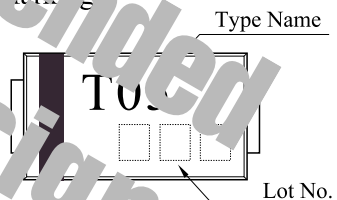
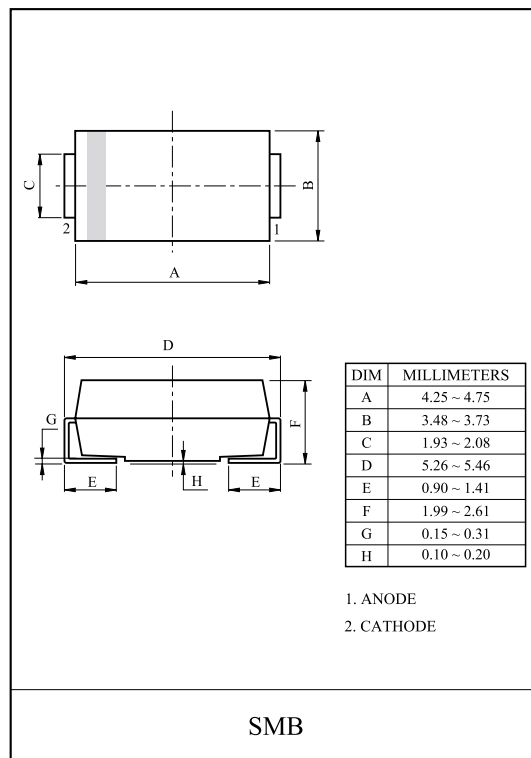
#### APPLICATIONS

- Devices for Unidirectional Applications.
- Automotive Controller.
- Notebooks, Desktops, & Servers.

#### MAXIMUM RATING (Ta=25 °C)

| CHARACTERISTIC                     | SYMBOL           | RATING    | UNIT |
|------------------------------------|------------------|-----------|------|
| Peak Pulse Power (tp=10/1000 μs)   | P <sub>PK</sub>  | 500       | W    |
| Peak Pulse Current (tp=10/1000 μs) | I <sub>PP</sub>  | 65.2      | A    |
| Operating Temperature              | T <sub>op</sub>  | -55 ~ 150 | °C   |
| Storage Temperature                | T <sub>stg</sub> | -55 ~ 150 | °C   |

- \* Notes) : (1) Derated above Ta=25 °C per power derating curve.  
 (2) Mounted on 0.2 × 0.2 (5.0 × 5.0mm) copper pads to each terminal.  
 (3) Mounted on minimum recommended pad lay out

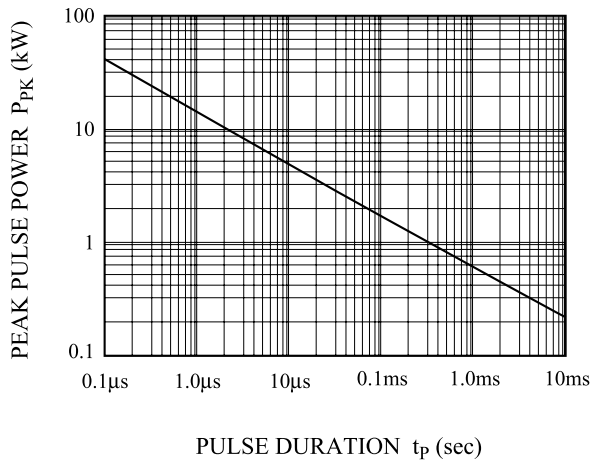


#### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

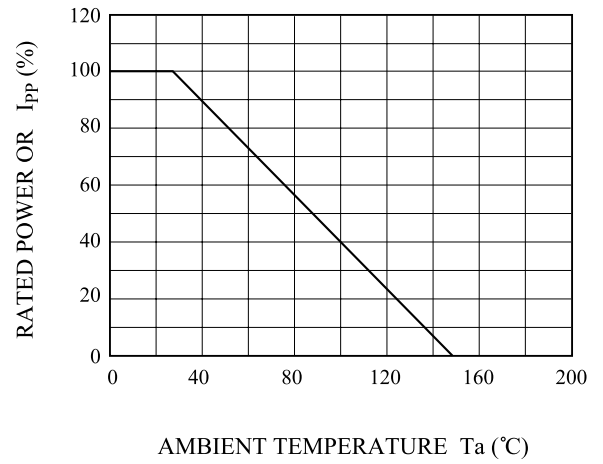
| CHARACTERISTIC            | SYMBOL           | TEST CONDITION                        | MIN. | TYP. | MAX. | UNIT |
|---------------------------|------------------|---------------------------------------|------|------|------|------|
| Reverse Stand-Off Voltage | V <sub>RWM</sub> | -                                     | -    | -    | 5    | V    |
| Reverse Breakdown Voltage | V <sub>BR</sub>  | I <sub>t</sub> =10mA                  | 6.40 | -    | 7.07 | V    |
| Reverse Leakage Current   | I <sub>R</sub>   | V <sub>RWM</sub> =5V                  | -    | -    | 800  | μA   |
| Clamping Voltage          | V <sub>C</sub>   | I <sub>PP</sub> =65.2A, tp=10/1000 μs | -    | -    | 9.2  | V    |

# PG05NSSMB

NON-REPETITIVE PEAK PULSE  
POWER vs. PULSE TIME



POWER DERATION CURVE



PULSE RISE/FALL TIME

