

Protection of Voltage Sensitive Components.

### FEATURES

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

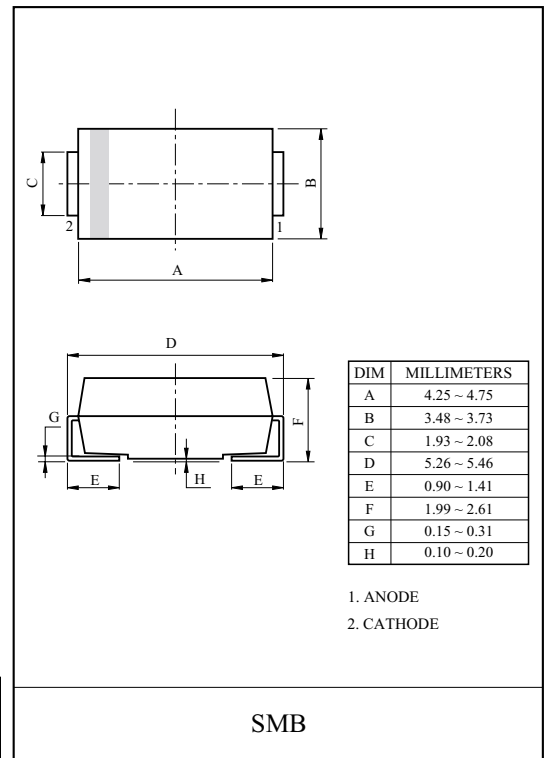
### APPLICATIONS

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

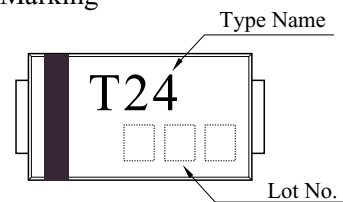
### MAXIMUM RATING (Ta=25 °C)

| CHARACTERISTIC                    | SYMBOL           | RATING    | UNIT |
|-----------------------------------|------------------|-----------|------|
| Peak Pulse Power (tp=10/1000µs)   | P <sub>PK</sub>  | 600       | W    |
| Peak Pulse Current (tp=10/1000µs) | I <sub>PP</sub>  | 15.4      | A    |
| Operating Temperature             | T <sub>j</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 × 5.0 mm) copper pads to each terminal.  
 (3) Mounted on minimum recommended pad lay out



### Marking

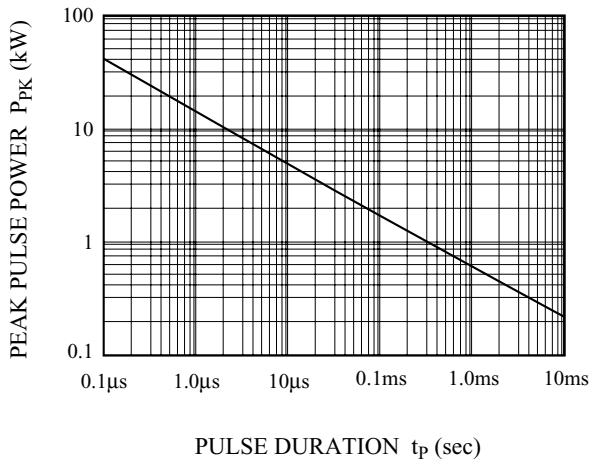


### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

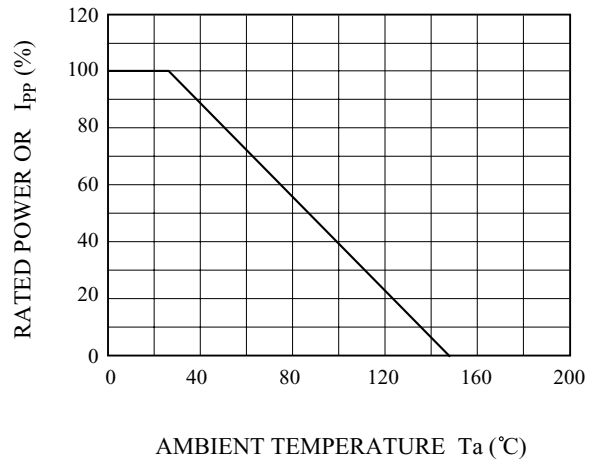
| CHARACTERISTIC            | SYMBOL           | TEST CONDITION                       | MIN. | TYP. | MAX. | UNIT |
|---------------------------|------------------|--------------------------------------|------|------|------|------|
| Reverse Stand-Off Voltage | V <sub>RWM</sub> | -                                    | -    | -    | 24   | V    |
| Reverse Breakdown Voltage | V <sub>BR</sub>  | I <sub>t</sub> =1.0mA                | 26.7 | -    | 29.5 | V    |
| Reverse Leakage Current   | I <sub>R</sub>   | V <sub>RWM</sub> =24V                | -    | -    | 1.0  | µA   |
| Clamping Voltage          | V <sub>C</sub>   | I <sub>PP</sub> =15.4A, tp=10/1000µs | -    | -    | 38.9 | V    |

# PG24NSSMB

NON-REPETITIVE PEAK PULSE  
POWER vs. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM

