

Protection of Voltage Sensitive Components.

### FEATURES

- 400 Watts peak pulse power.( $t_p=10/1000\mu s$ )
- Low profile package.
- Transient protection for data line to

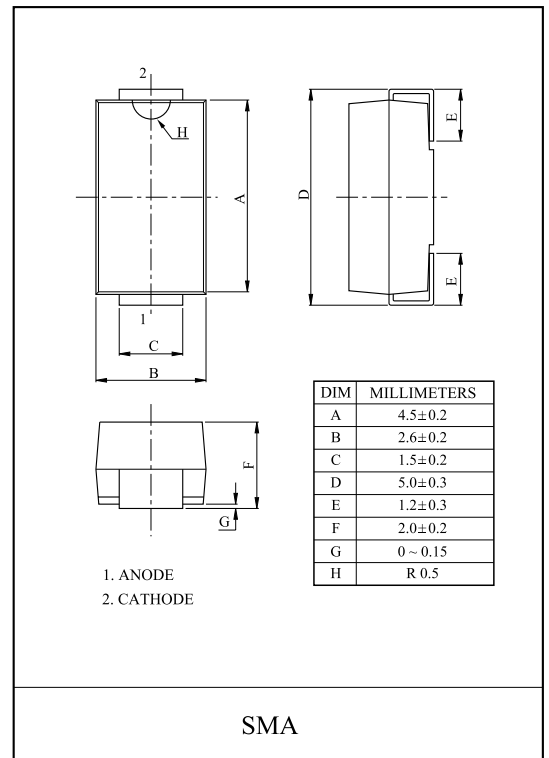
### APPLICATIONS

- Communication Systems.
- Automotive.
- Power Supplies.
- Notebooks, Desktops & Servers.

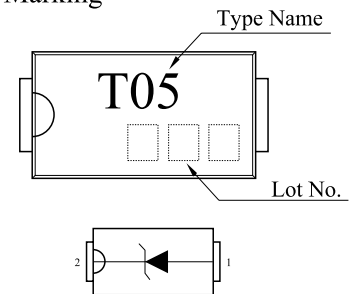
### MAXIMUM RATING (Ta=25 )

| CHARACTERISTIC                            | SYMBOL    | RATING  | UNIT |
|---|-----------|---------|------|
| Peak Pulse Power * ( $t_p=10/1000\mu s$ ) | $P_{PK}$  | 400     | W    |
| Peak Pulse Current ( $t_p=10/1000\mu s$ ) | $I_{PP}$  | 43.5    | A    |
| Operating Temperature                     | $T_j$     | -55 150 |      |
| Storage Temperature                       | $T_{stg}$ | -55 150 |      |

- \* Notes) : (1) Derated above Ta=25 per power derating curve.  
 (2) Mounted on  $0.31 \times 0.31$  ( $8.0 \times 8.0mm$ ) copper pads to each terminal.



### Marking

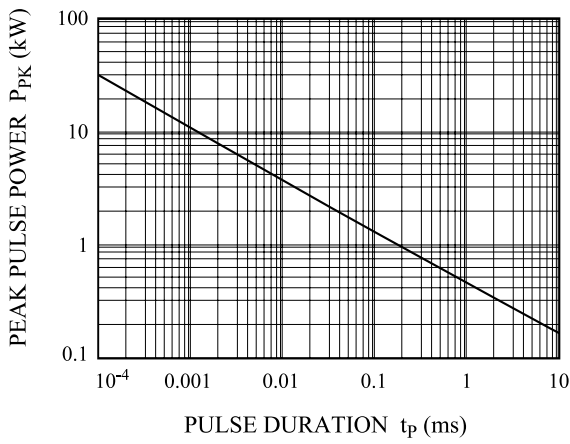


### ELECTRICAL CHARACTERISTICS (Ta=25 )

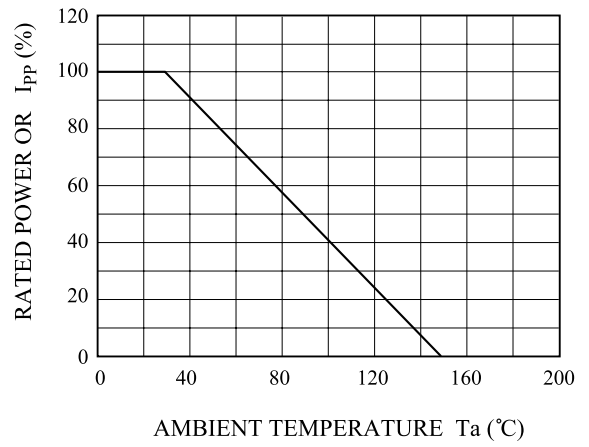
| CHARACTERISTIC            | SYMBOL    | TEST CONDITION                   | MIN. | TYP. | MAX. | UNIT    |
|---------------------------|-----------|----------------------------------|------|------|------|---------|
| Reverse Stand-Off Voltage | $V_{RWM}$ | -                                | -    | -    | 5    | V       |
| Reverse Breakdown Voltage | $V_{BR}$  | $I_t=10mA$                       | 6.4  | 6.7  | 7.0  | V       |
| Reverse Leakage Current   | $I_R$     | $V_{RWM}=5V$                     | -    | -    | 400  | $\mu A$ |
| Clamping Voltage          | $V_C$     | $I_{PP}=43.5A, t_p=10/1000\mu s$ | -    | -    | 9.2  | V       |

# PG05MSSMA

NON-REPETITIVE PEAK PULSE  
POWER vs. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM

