

Protection of Voltage Sensitive Components.

### FEATURES

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

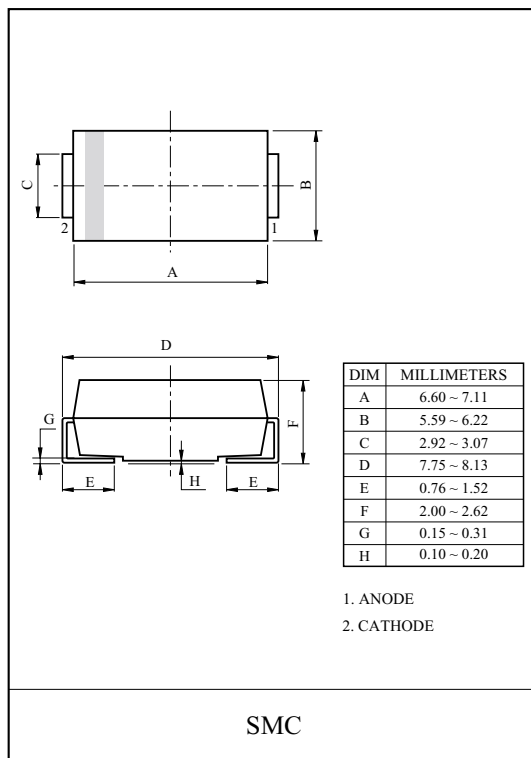
### APPLICATIONS

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

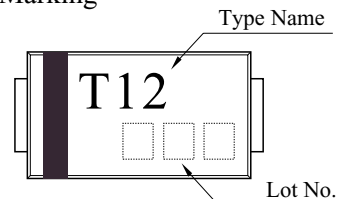
### MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power (tp=10/1000µs)	P <sub>PK</sub>	1500	W
Peak Pulse Current (tp=10/1000µs)	I <sub>PP</sub>	75.4	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 0.31 × 0.31 (8.0 × 8.0mm) copper pads to each terminal.  
 (3) Mounted on minimum recommended pad lay out



### Marking

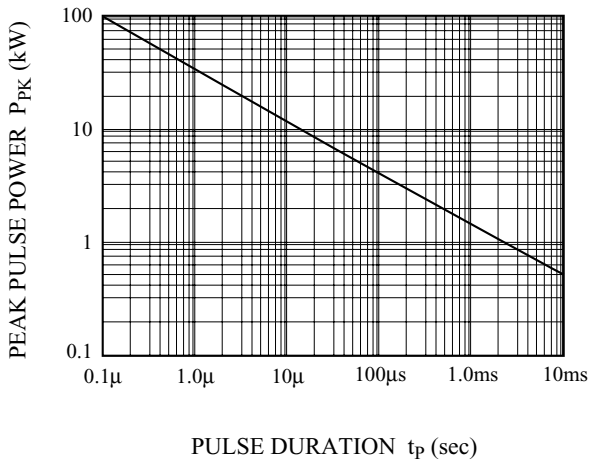


### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

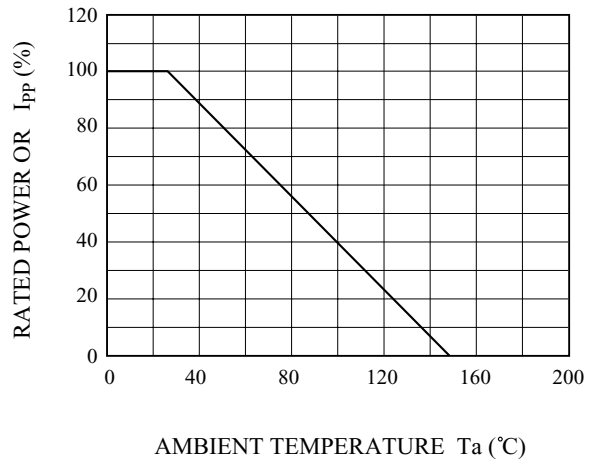
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V <sub>RWM</sub>	-	-	-	12	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>r</sub> =1.0mA	13.3	-	14.7	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =12V	-	-	5.0	µA
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =75.4A, tp=10/1000µs	-	-	19.9	V

# PG12NSSMC

NON-REPETITIVE PEAK PULSE  
POWER vs. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM

