

Protection of Voltage Sensitive Components.

### FEATURES

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

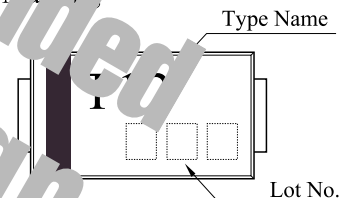
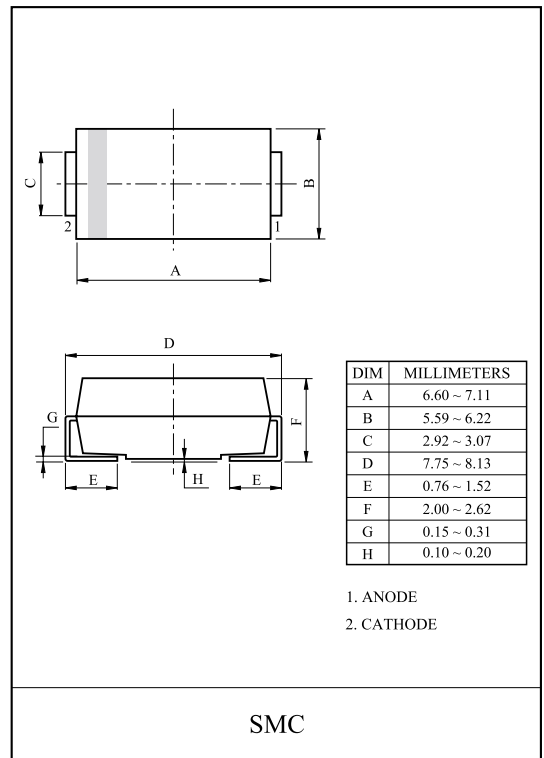
### APPLICATIONS

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

### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power (tp=10/100µs)	$P_{PK}$	500	W
Peak Pulse Current (tp=10/100µs)	$I_{PP}$	7.4	A
Operating Temperature	$T_{op}$	-55 ~ 150	°C
Storage Temperature	$T_{stg}$	-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

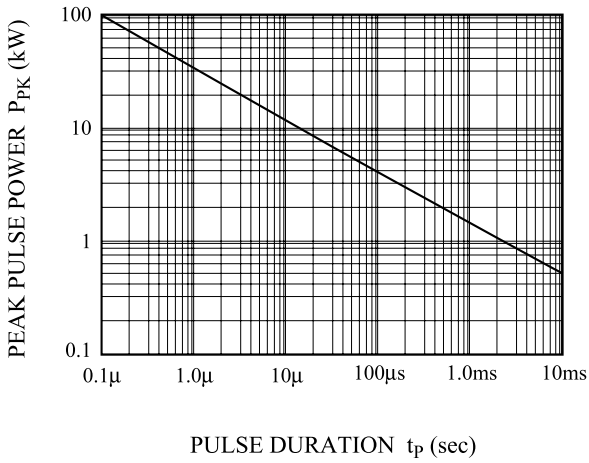


### ELECTRICAL CHARACTERISTICS (Ta=25°C)

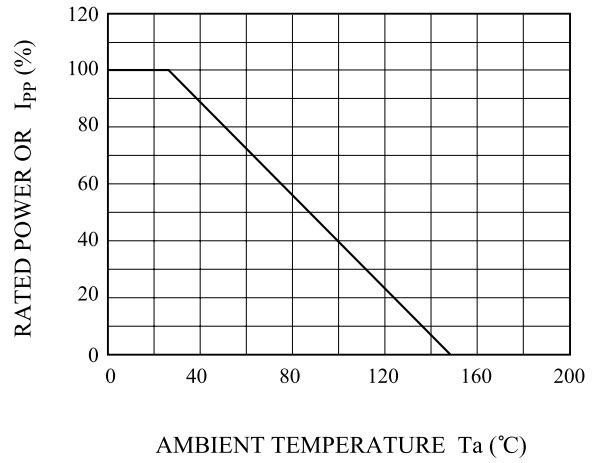
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	$V_{RWM}$	-	-	-	12	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1.0mA$	13.3	-	14.7	V
Reverse Leakage Current	$I_R$	$V_{RWM}=12V$	-	-	5.0	µA
Clamping Voltage	$V_C$	$I_{PP}=75.4A, t_p=10/1000\mu s$	-	-	19.9	V

# PG12NSSMC

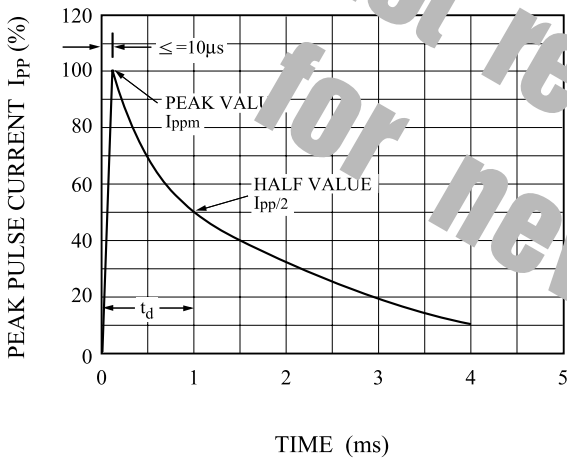
NON-REPETITIVE PEAK PULSE  
POWER vs. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM



Not recommended for new design