

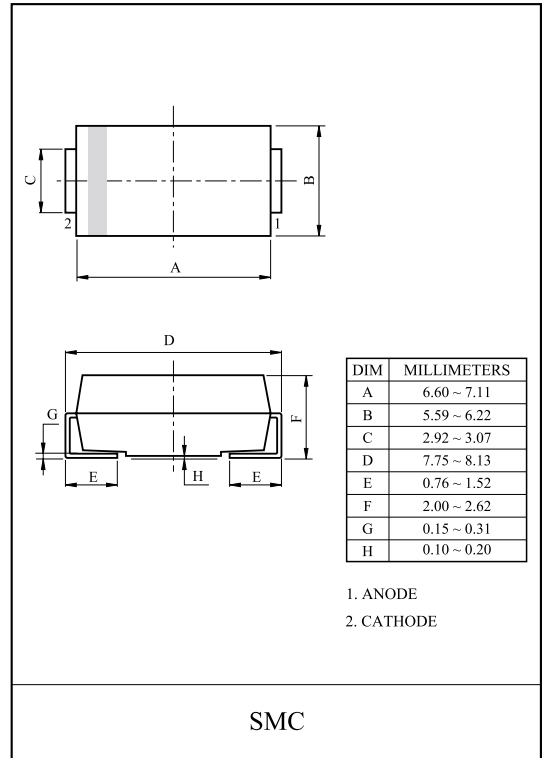
Protection of Voltage Sensitive Components.

FEATURES

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

APPLICATIONS

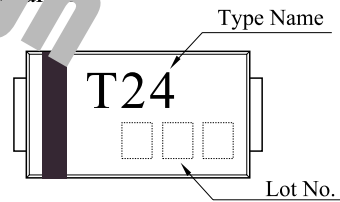
- Devices for Unidirectional Applications.
- Automotive Controller.
- Notebooks, Desktops, & Servers.



MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	MIN.	MAX.	UNIT
Peak Pulse Power (tp=10/1000 μs)	P _{PK}	1500		W
Peak Pulse Power (tp=8/20 μs)	P _p	7000		W
Peak Pulse Current (tp=10/1000 μs)	I _p	38.6		A
Operating Temperature	T _j	-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

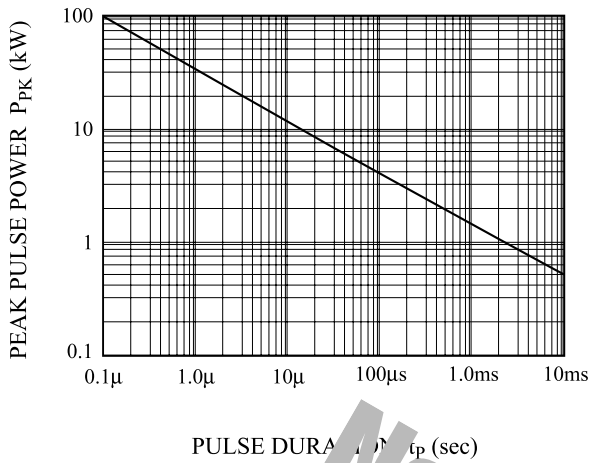


ELECTRICAL CHARACTERISTICS (Ta=25 °C)

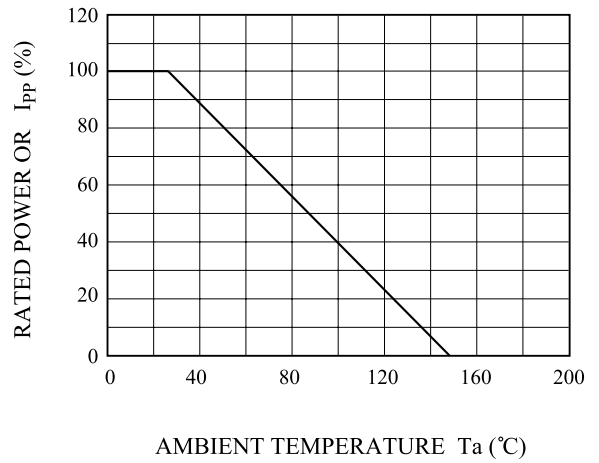
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	24	V
Reverse Breakdown Voltage	V _{BR}	I _r =1.0mA	26.7	-	29.5	V
Reverse Leakage Current	I _R	V _{RWM} =24V	-	-	1.0	μA
Clamping Voltage	V _C	I _{PP} =38.6A, tp=10/1000 μs	-	-	38.9	V

PG24NSSMC

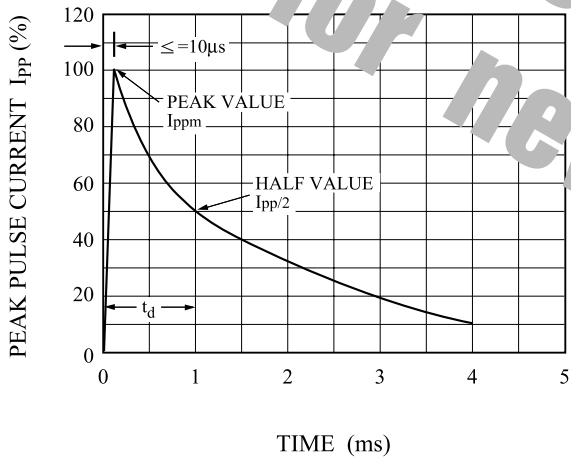
NON-REPETITIVE PEAK PULSE
POWER vs. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM



Not recommended for new design