

Protection of Voltage Sensitive Components.

FEATURES

- 1500 Watts peak pulse power ($t_p=8/20\ \mu\text{s}$)
- Low profile package.
- Transient protection for data line to
IEC61000-4-2(ESD) 15kV(Air), 8kV(Contact)
IEC61000-4-4(EFT) 40A($t_p=5/50\text{ns}$)
IEC61000-4-5(Lightning) 42.3A($t_p=8/20\text{ns}$)
- Suffix U : Qualified to AEC-Q101.
ex) PG22KSSMA-RTF/HU

APPLICATIONS

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

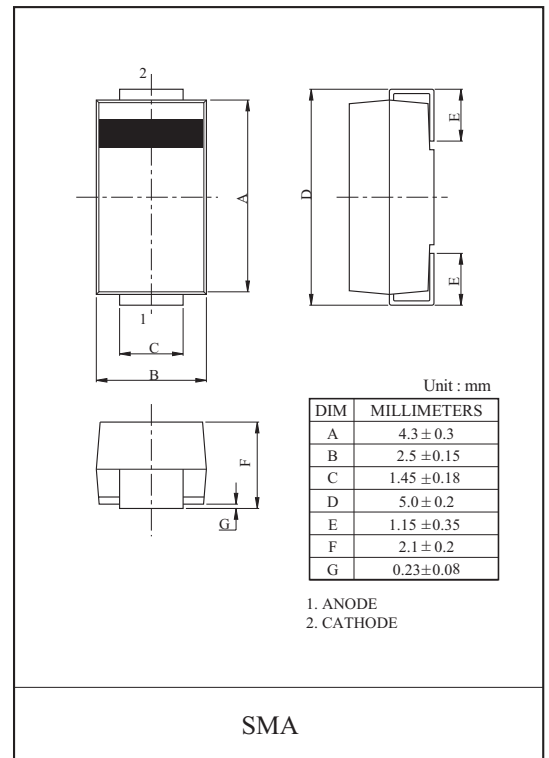
MAXIMUM RATING ($T_a=25\ ^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power ($t_p=8/20\ \mu\text{s}$) *	P_{PK}	1500	W
Peak Pulse Current ($t_p=8/20\ \mu\text{s}$)	I_{PP}	42.3	A
Operating Temperature	T_j	-55 150	
Storage Temperature	T_{stg}	-55 150	

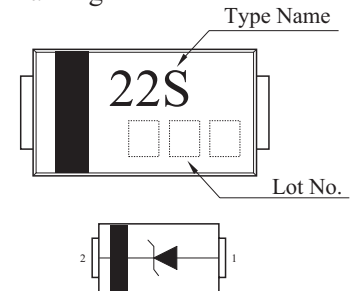
- * Notes) (1) Derated above $T_a=25\ ^\circ\text{C}$ per power derating curve.
(2) Mounted on 0.31×0.31 ($8.0 \times 8.0\text{mm}$) copper pads to each terminal.

ELECTRICAL CHARACTERISTICS ($T_a=25\ ^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V_{RWM}	-	-	-	22	V
Reverse Breakdown Voltage	V_{BR}	$I_t=1\text{mA}$	24.4	-	-	V
Reverse Leakage Current	I_R	$V_{RWM}=22\text{V}$	-	-	5	μA
Clamping Voltage	V_C	$I_{PP}=42.3\text{A}$, $t_p=8/20\ \mu\text{s}$	-	-	35.5	V
Junction Capacitance	C_J	$V_R=0\text{V}$, $f=1\text{MHz}$	-	-	1000	pF

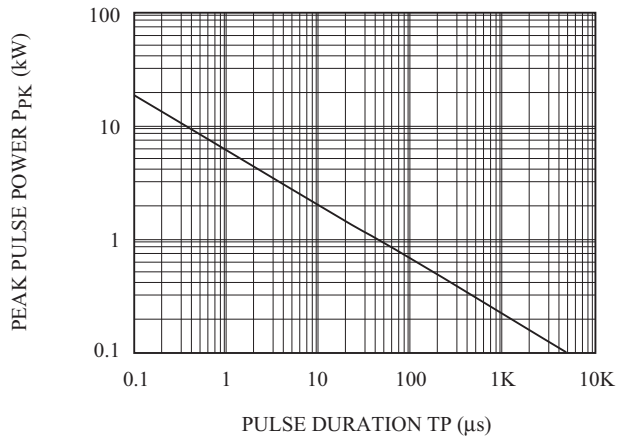


Marking

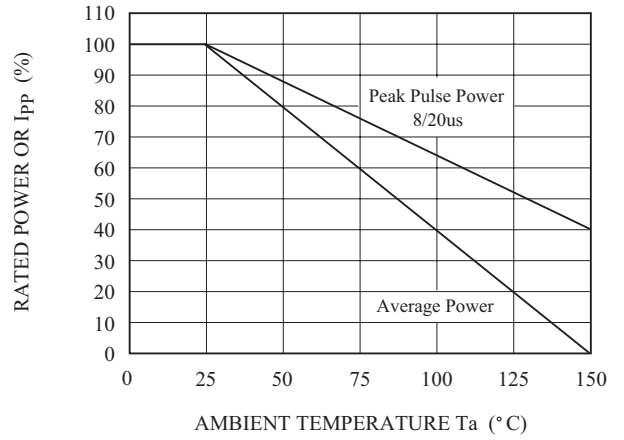


PG22KSSMA

NON-REPETITIVE PEAK PULSE POWER VS. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM

