PG24JSSMA

Single Line TVS Diode for ESD Protection

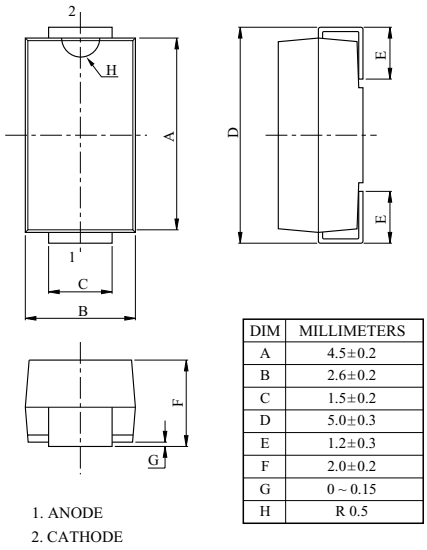
Protection of Voltage Sensitive Components.

FEATURES

- 1500 Watts peak pulse power (tp=8/20 μs)
- Low profile package.
- Transient protection for data line to
  IEC 61000-4-2(ESD) 15kV(Air), 8kV(Contact)
  IEC 61000-4-4(EFT) 40A(tp=5/50ns)
  IEC 61000-4-5(Lightning) 38.6A(tp=8/20ns)

APPLICATIONS

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



DIM	MILLIMETERS
A	4.5±0.2
B	2.6±0.2
C	1.5±0.2
D	5.0±0.3
E	1.2±0.3
F	2.0±0.2
G	0 ~ 0.15
H	R 0.5

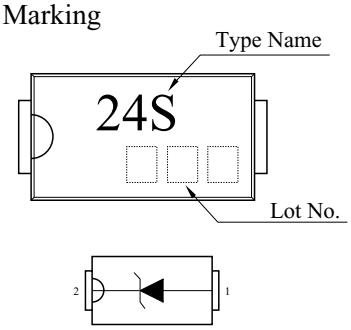
SMA

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power (tp=8/20 μs) *	P_{PK}	1500	W
Peak Pulse Current (tp=8/20 μs)	I_{PP}	38.6	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 0.31×0.31 (8.0×8.0㎜) copper pads to each terminal.

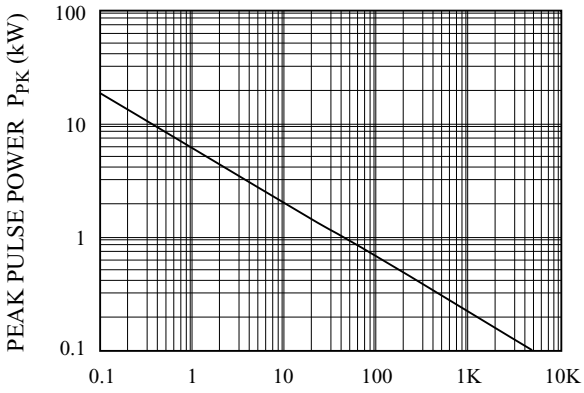
Marking



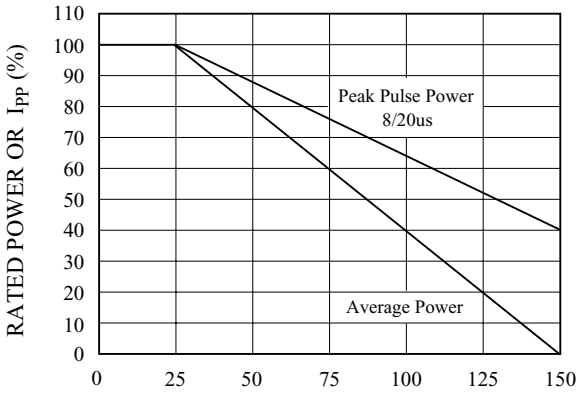
ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V_{RWM}	-	-	-	24	V
Reverse Breakdown Voltage	V_{BR}	I_t=1mA	26.7	-	-	V
Reverse Leakage Current	I_R	V_{RWM}=24V	-	-	5	μA
Clamping Voltage	V_C	I_{PP}=38.6A, tp=8/20 μs	-	-	38.9	V
Junction Capacitance	C_J	V_R=0V, f=1MHz	-	-	800	pF

NON-REPETITIVE PEAK PULSE POWER
VS. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM

