

Protection of Voltage Sensitive Components.

### FEATURES

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

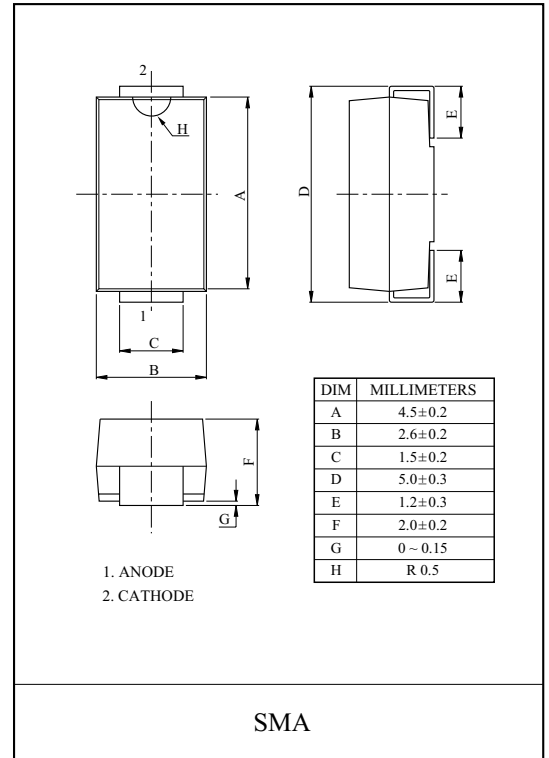
### APPLICATIONS

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

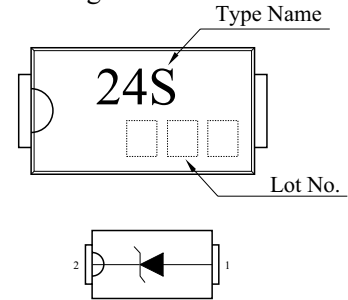
### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power ( $t_p=8/20\mu s$ ) *	$P_{PK}$	1500	W
Peak Pulse Current ( $t_p=8/20\mu s$ )	$I_{PP}$	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 × 8.0 mm) copper pads to each terminal.



### Marking

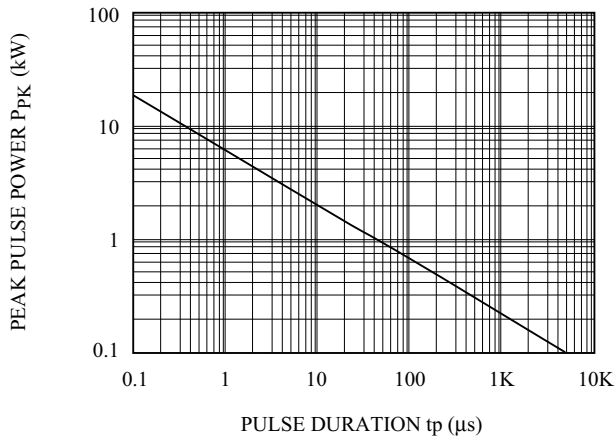


### ELECTRICAL CHARACTERISTICS (Ta=25°C)

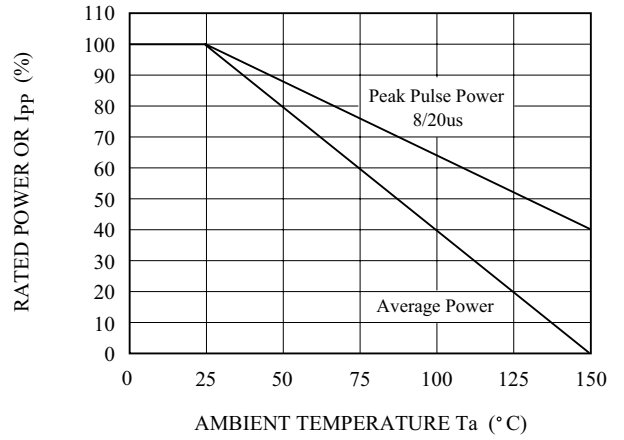
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	$V_{RWM}$	-	-	-	24	V
Reverse Breakdown Voltage	$V_{BR}$	$I_t=1mA$	26.7	-	-	V
Reverse Leakage Current	$I_R$	$V_{RWM}=24V$	-	-	5	$\mu A$
Clamping Voltage	$V_C$	$I_{PP}=38.6A, t_p=8/20\mu s$	-	-	38.9	V
Junction Capacitance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

# PG24JSSMA

NON-REPETITIVE PEAK PULSE POWER VS. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM

