

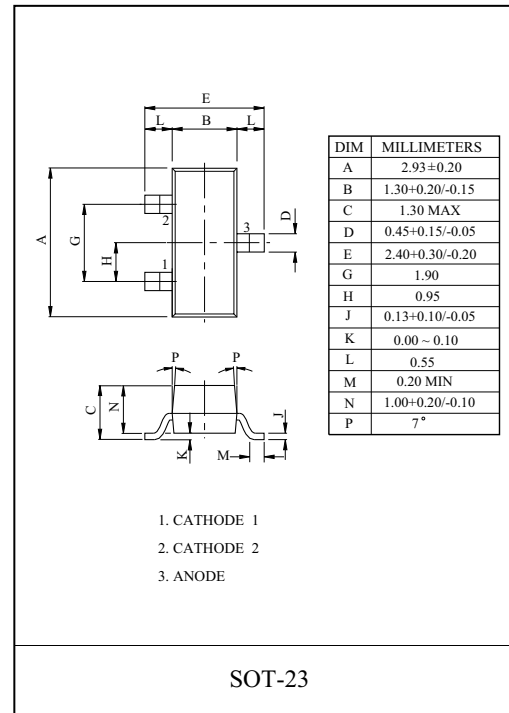
Protection in Portable Electronics Applications.

#### FEATURES

- 350 Watts peak pulse power ( $t_p=8/20\mu s$ )
- Transient protection for data lines 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) 15A( $t_p=8/20\mu s$ )
- Standard SOT-23 Package.
- Protects one Bidirectional line or two Unidirectional Lines.
- Low clamping voltage.
- Low leakage current.

#### APPLICATIONS

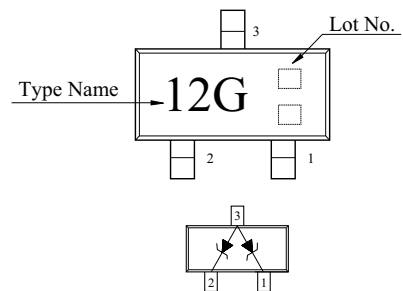
- Cell phone handsets and accessories.
- Microprocessor based equipment.
- Industrial Controls.
- Personal digital assistants (PDA's)
- Notebooks, desktops PC, & servers.
- Portable instrumentation.
- Set-Top Box, DVD Player.



#### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power ( $t_p=8/20\mu s$ )	$P_{PK}$	350	W
Peak Pulse Current ( $t_p=8/20\mu s$ )	$I_{PP}$	15	A
Operating Temperature	$T_j$	-55 ~ 150	°C
Storage Temperature	$T_{stg}$	-55 ~ 150	°C

#### Marking

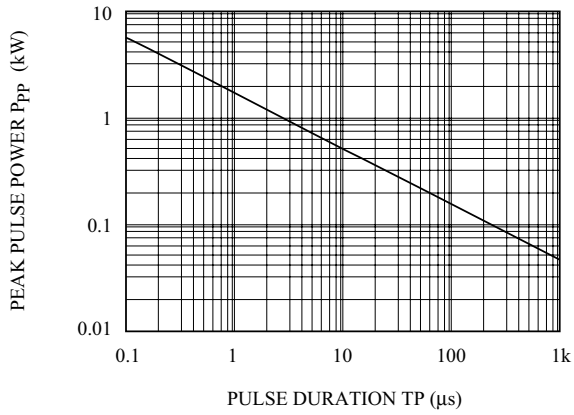


#### ELECTRICAL CHARACTERISTICS (Ta=25°C)

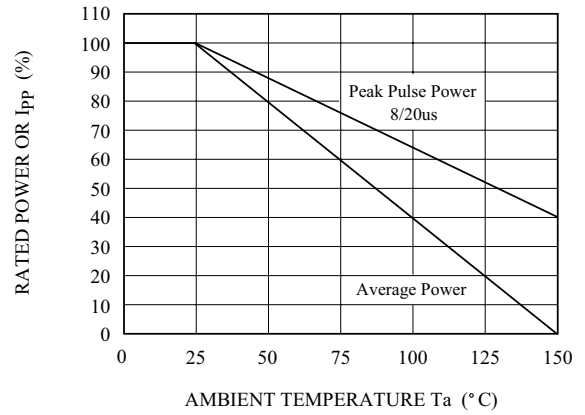
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	$V_{RWM}$	-	-	-	12	V
Reverse Breakdown Voltage	$V_{BR}$	$I_t=1mA$	13.3	-	-	V
Reverse Leakage Current	$I_R$	$V_{RWM}=12V$	-	-	1	$\mu A$
Clamping Voltage	$V_C$	$I_{PP}=15A, t_p=8/20\mu s$	-	-	25	V
Junction Capacitance	$C_J$	$V_R=0V, f=1MHz$ Pin 1 to 3 and Pin 2 to 3	-	-	150	pF

# PG12GAS23

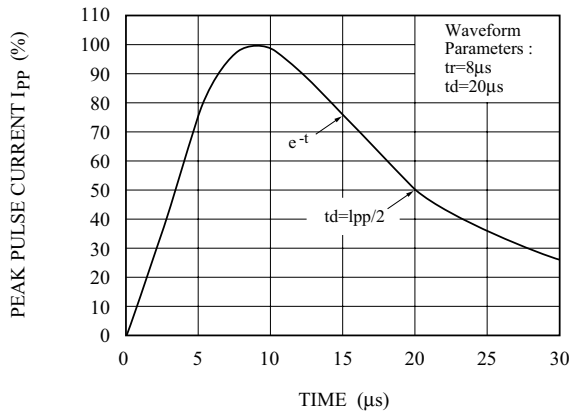
NON-REPETITIVE PEAK PULSE POWER VS. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM



$C_J - V_R$

