

Protection in Portable Electronics Applications.

### FEATURES

- 350 Watts peak pulse power ( $t_p=8/20 \mu s$ )
- Transient protection for data lines to IEC61000-4-2(ESD) 15kV(Air), 8kV(Contact) IEC61000-4-4(EFT) 40A( $t_p=5/50ns$ ) IEC61000-4-5(Lightning) 24A( $t_p=8/20 \mu s$ )
- Standard SOT-23 Package.
- Protects one Bidirectional line or two Unidirectional Lines.
- Low clamping voltage.
- Low leakage current.
- Suffix U : Qualified to AEC-Q101.  
ex) PG05HAS23-RTK/HU

### APPLICATIONS

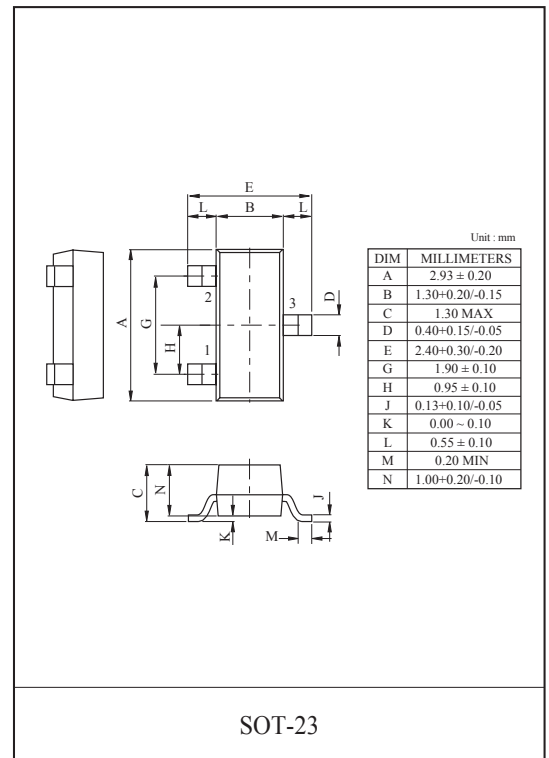
- Cell phone handsets and accessories.
- Microprocessor based equipment.
- Industrial Controls.
- Personal digital assistants (PDA's)
- Notebooks, desktops PC, & servers.
- Portable instrumentation.
- Set-Top Box, DVD Player.

### MAXIMUM RATING ( $T_a=25^\circ C$ )

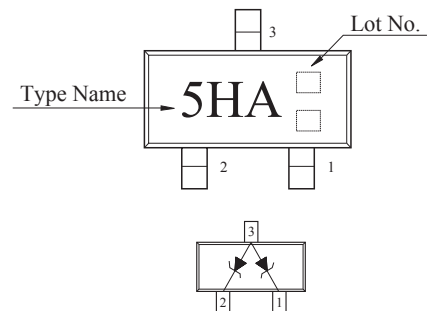
CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power ( $t_p=8/20 \mu s$ )	$P_{PK}$	350	W
Peak Pulse Current ( $t_p=8/20 \mu s$ )	$I_{PP}$	24	A
Operating Temperature	$T_j$	-55 ~ 150	$^\circ C$
Storage Temperature	$T_{stg}$	-55 ~ 150	$^\circ C$

### ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ C$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	$V_{RWM}$	-	-	-	5	V
Reverse Breakdown Voltage	$V_{BR}$	$I_t=1mA$	6	-	-	V
Reverse Leakage Current	$I_R$	$V_{RWM}=5V$	-	-	20	$\mu A$
Clamping Voltage	$V_C$	$I_{PP}=24A, t_p=8/20 \mu s$	-	-	14.5	V
Junction Capacitance	$C_J$	$V_R=0V, f=1MHz$ Pin 1 to 3 and Pin 2 to 3	-	-	400	pF

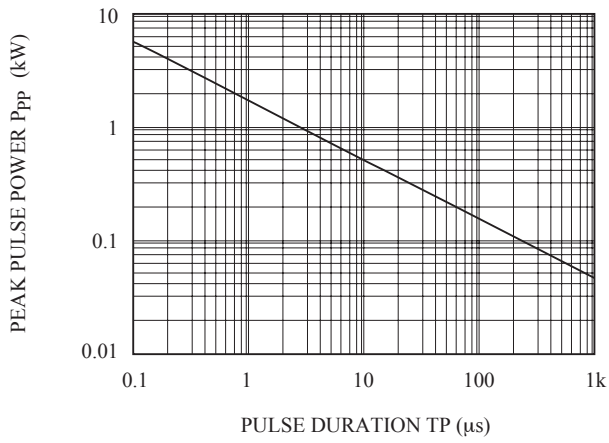


### Marking

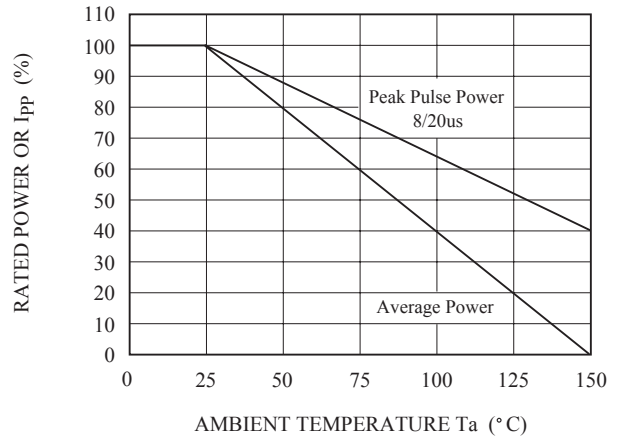


# PG05HAS23

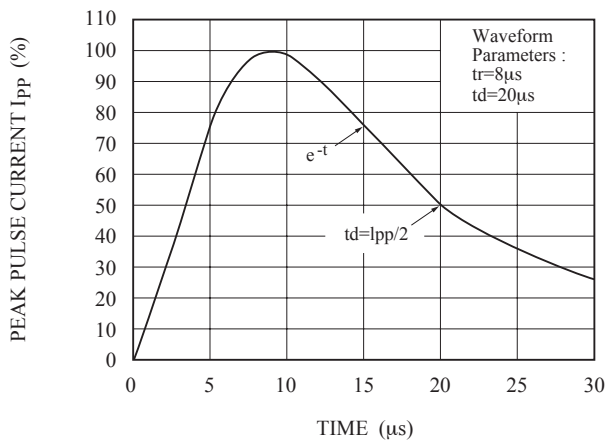
NON-REPETITIVE PEAK PULSE POWER VS. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM



$C_J - V_R$

