

Protection in Portable Electronics Applications.

FEATURES

- Transient protection for data lines to IEC61000-4-2(ESD) 15kV(Air), 8kV(Contact)
- Small package for use in portable electronics.
- Suitable replacement for Multi-Layer Varistors in ESD protection applications.
- Protects one I/O or power line.
- Low clamping voltage.
- Low leakage current.
- Suffix U : Qualified to AEC-Q101.
ex) PG05BAUSM-RTK/HU

APPLICATIONS

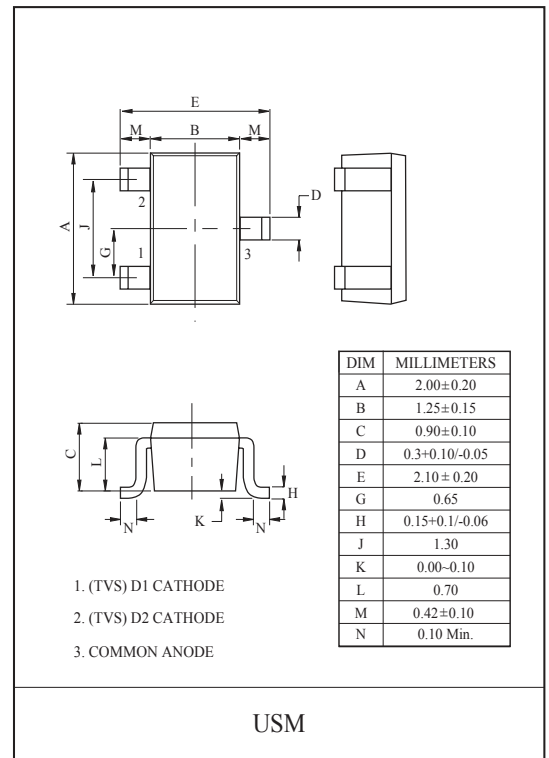
- Cell phone handsets and accessories.
- Microprocessor based equipment.
- Personal digital assistants (PDA's)
- Notebooks, desktops, & servers.
- Portable instrumentation.
- Pagers peripherals.

MAXIMUM RATING (Ta=25°C)

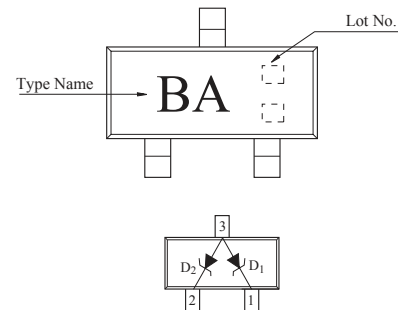
CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power with 8/20us Waveform	P_{PK}	10	W
Peak Pulse Current with 8/20us Waveform	I_{PP}	1	A
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55 ~ 150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Reverse Stand-Off Voltage	V_{RWM}	-	-	-	5	V	
Reverse Breakdown Voltage	V_{BR}	$I_t=5mA$	6.46	-	7.14	V	
Reverse Leakage Current	I_R	$V_{RWM}=5V$	-	-	0.5	μA	
Total Capacitance	C_T	$V_R=0V, f=1MHz$	-	3	-	pF	
Clamping Voltage	V_C	$I_{PP}=1A, tp=8/20us$	-	8.8	10	V	
Electrostatic Discharge	V_{ESD}	IEC61000-4-2	Air	± 15	-	-	kV
			Contact	± 8	-	-	kV

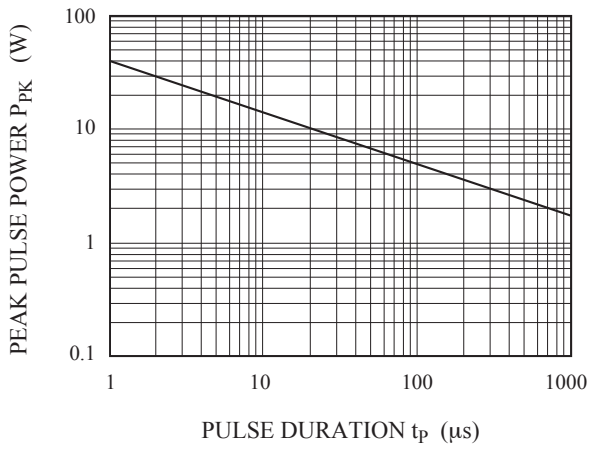


Marking

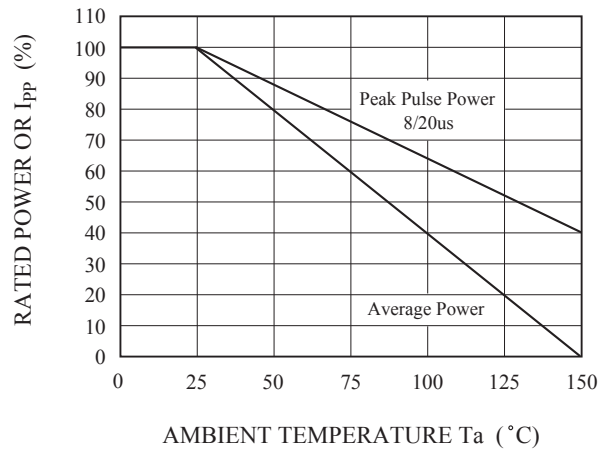


PG05BAUSM

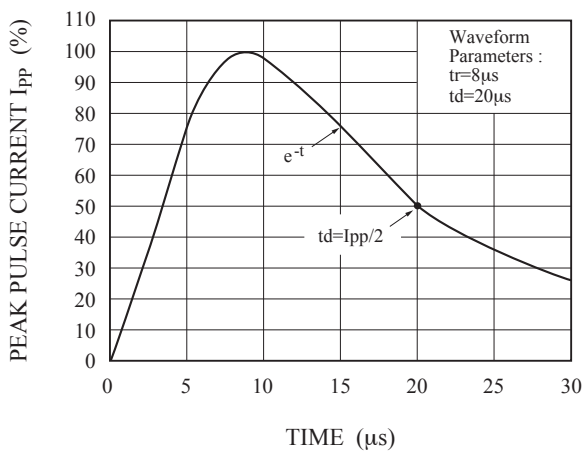
NON-REPETITIVE PEAK PULSE POWER VS. PULSE TIME



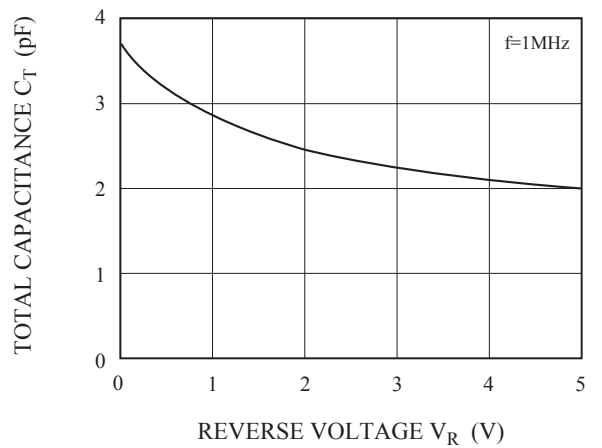
POWER DERATION CURVE



PULSE WAVEFORM



$C_T - V_R$



$I_{pp} - V_C$

