

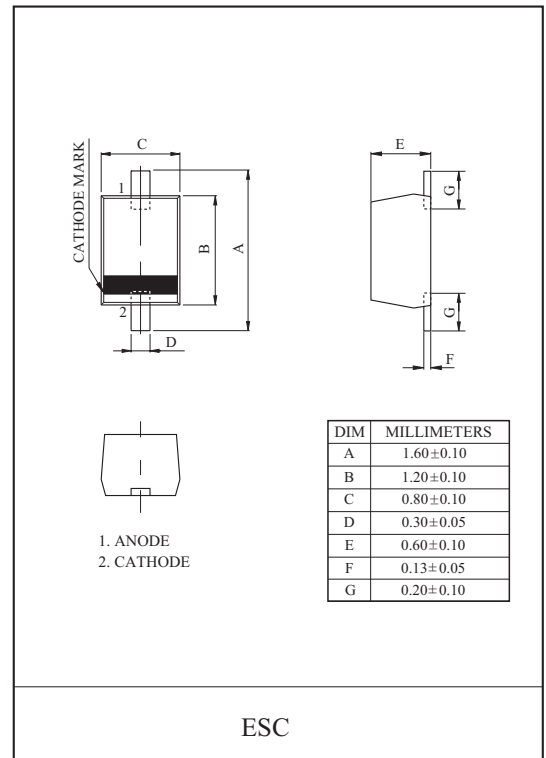
### Protection in Portable Electronics Applications.

#### FEATURES

- Transient voltage protection for data lines.
- IEC61000-4-2(ESD) 15kV(Air), 8kV(Contact).
- Small package for portable electronics.
- Suitable replacement for 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) PG05BSESC-RTK/HU

#### APPLICATIONS

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



#### MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power (tp=8/20μs)	P <sub>PK</sub>	30	W
Peak Pulse Current (tp=8/20μs)	I <sub>PP</sub>	1.6	A
Junction Temperature	T <sub>j</sub>	150	
Storage Temperature	T <sub>stg</sub>	-55 150	

Marking

Type Name

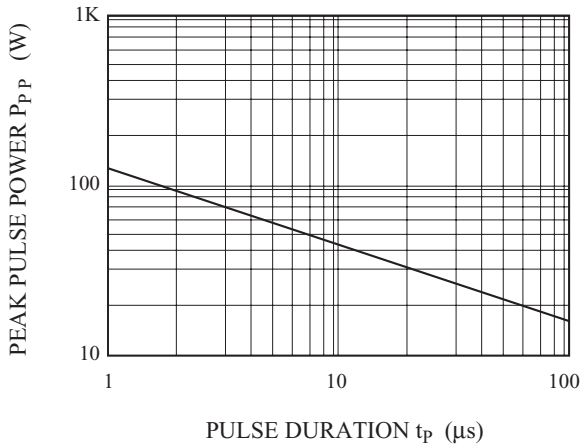


#### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

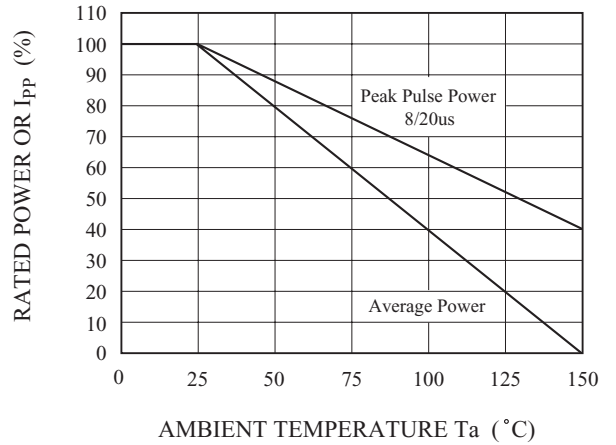
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V <sub>RWM</sub>	-	-	-	5	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>r</sub> =5mA	6.65	-	7.45	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =3.5V	-	-	0.5	μA
Claming Voltage	V <sub>C</sub>	I <sub>PP</sub> =1A, tp=8/20μs	-	-	12	V
		I <sub>PP</sub> =1.6A, tp=8/20μs	-	-	18	V
Series Resistance	R <sub>S</sub>	V <sub>R</sub> =1V, f=900MHz	-	-	60	
Junction Capacitance	C <sub>J</sub>	V <sub>R</sub> =0V, f=1MHz	-	-	5.0	pF

# PG05BSESC

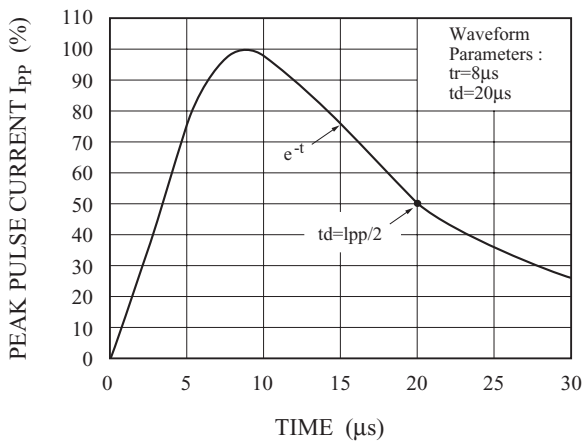
NON-REPETITIVE PEAK PULSE  
POWER VS. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM



C<sub>J</sub> - V<sub>R</sub>

