

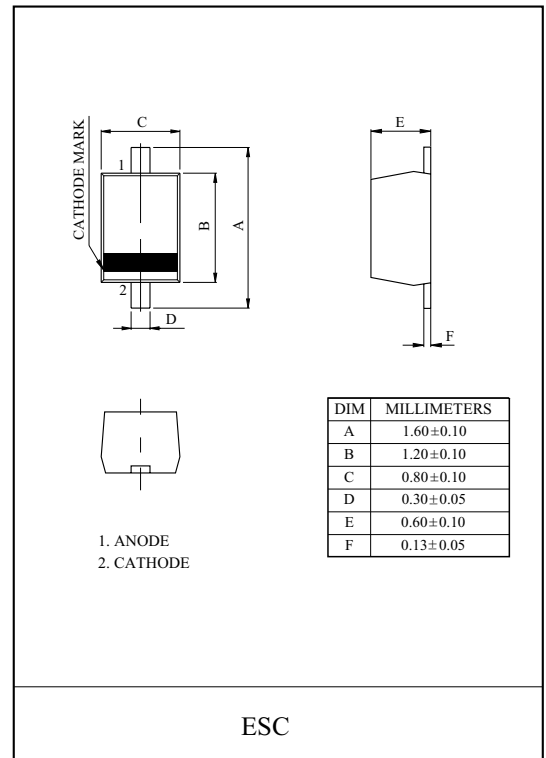
Protection in Portable Electronics Applications.

FEATURES

- Transient voltage protection for data lines.
- IEC 61000-4-2(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.

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 _{PK}	30	W
Peak Pulse Current (tp=8/20μs)	I _{PP}	1.6	A
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55 ~ 150	°C

Marking

Type Name

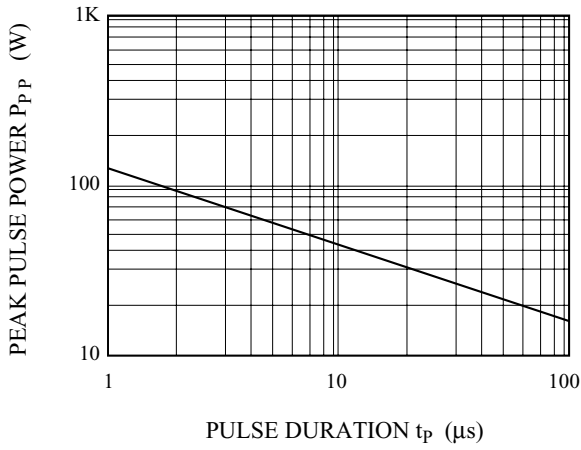


ELECTRICAL CHARACTERISTICS (Ta=25 °C)

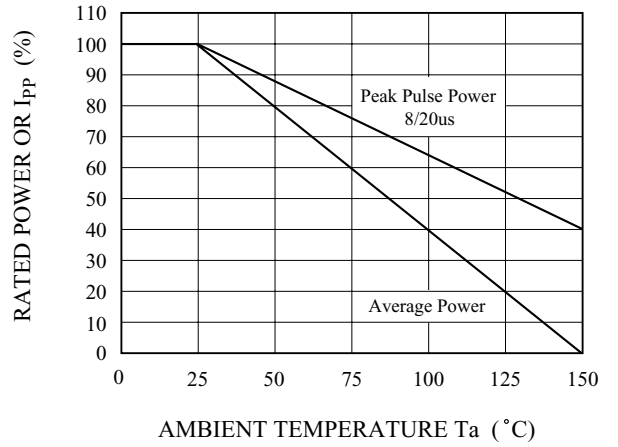
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V _{RWM}	-	-	-	5	V
Reverse Breakdown Voltage	V _{BR}	I _t =5mA	6.65	-	7.45	V
Reverse Leakage Current	I _R	V _{RWM} =3.5V	-	-	0.5	μA
Claming Voltage	V _C	I _{PP} =1A, tp=8/20μs	-	-	12	V
		I _{PP} =1.6A, tp=8/20μs	-	-	18	V
Series Resistance	R _S	V _R =1V, f=900MHz	-	-	60	Ω
Junction Capacitance	C _J	V _R =0V, f=1MHz	-	-	5.0	pF

PG05BSESC

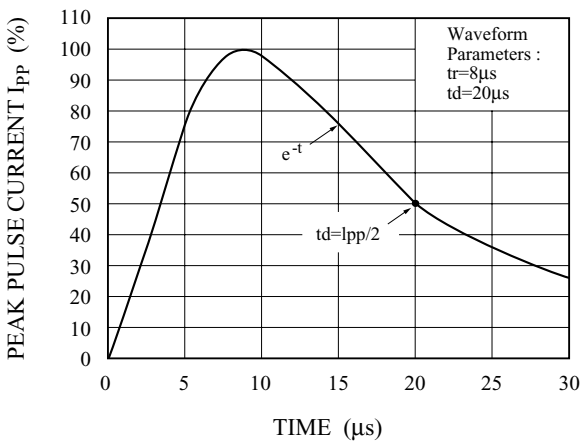
NON-REPETITIVE PEAK PULSE
POWER VS. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM



$C_J - V_R$

