

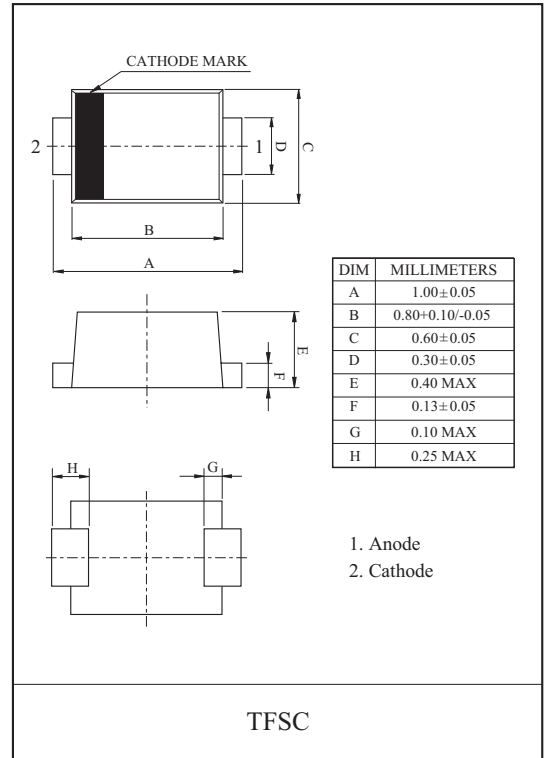
### Protection in Portable Electronics Applications.

#### FEATURES

- 80 Watts peak pulse power (tp=8/20 μs)
- Small package for use in portable electronics.
- Protects on I/O or power line.
- Low clamping voltage.
- Low leakage current.
- Suffix U : Qualified to AEC-Q101.  
ex) PG05FSTFC-RTK/HU

#### APPLICATIONS

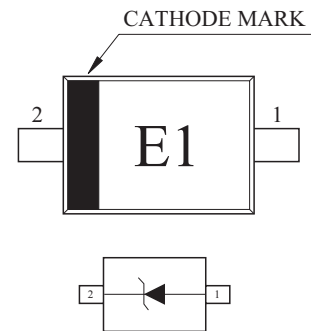
- Cell phone handsets and accessories.
- Microprocessor based equipment.
- Notebooks, desktops, & servers.



#### MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power (tp=8/20 μs)	P <sub>PK</sub>	80	W
Peak Pulse Current (tp=8/20 μs)	I <sub>PP</sub>	5	A
Junction Temperature	T <sub>j</sub>	-55 150	
Storage Temperature	T <sub>stg</sub>	-55 150	

#### Marking

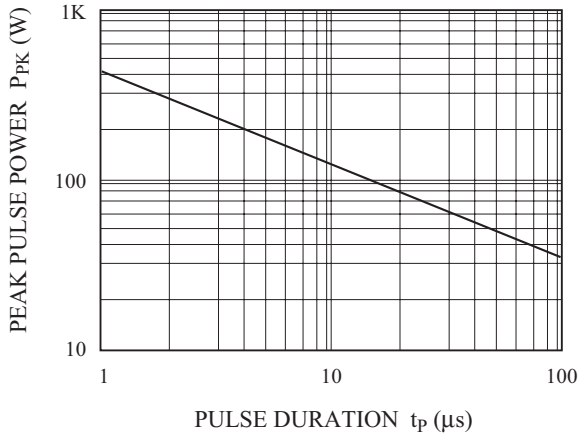


#### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

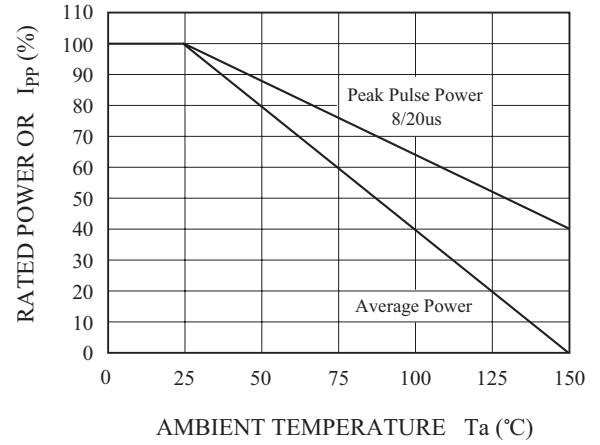
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Reverse Stand-Off Voltage	V <sub>RWM</sub>	-	-	-	5	V	
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>t</sub> =1mA	6	-	-	V	
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =5V	-	-	5	μA	
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =5A, tp=8/20 μs	-	-	16	V	
Junction Capacitance	C <sub>J</sub>	V <sub>R</sub> =0V, f=1MHz	-	-	70	pF	
Electrostatic Discharge	V <sub>ESD</sub>	IEC61000-4-2	Air	± 30	-	-	kV
			Contact				

# PG05FSTFC

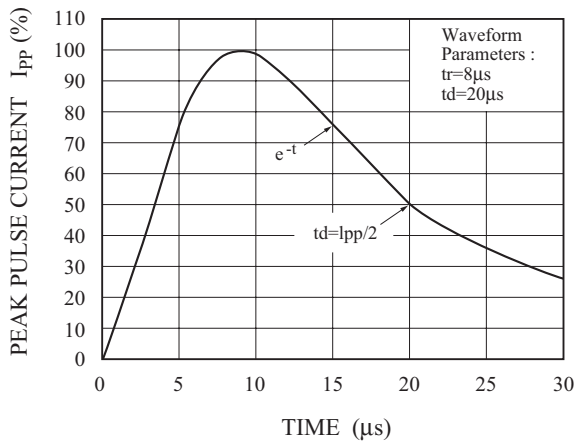
NON-REPETITIVE PEAK PULSE  
POWER vs. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM



$C_J - V_R$

