

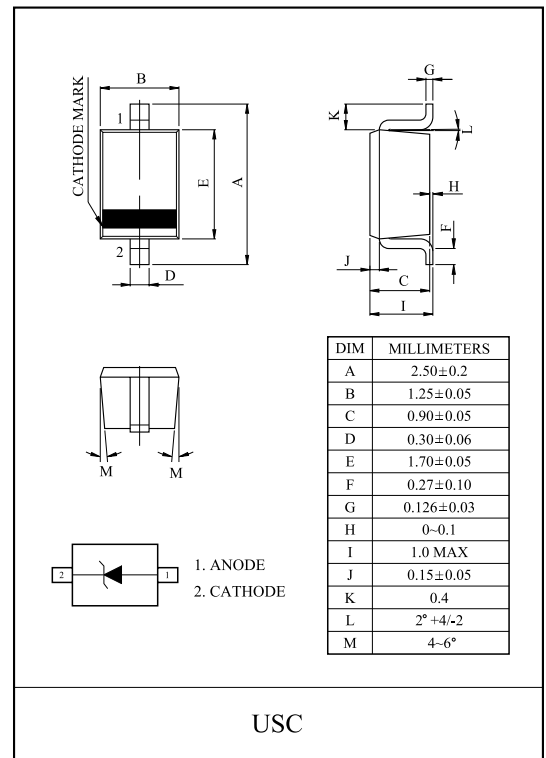
Protection in Portable Electronics Applications.

### FEATURES

- 350 Watts peak pulse power (tp=8/20 μs)
- Transient protection for data lines to IEC 61000-4-4(EFT) 40A(tp=5/50ns)  
IEC 61000-4-5(Lightning) 8A(tp=8/20 μs)
- Small package for use in portable electronics.
- Suitable replacement for Multi-Layer Varistors in ESD protection applications.
- Protects on I/O or power line.
- Low clamping voltage.
- Low leakage current.

### APPLICATIONS

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

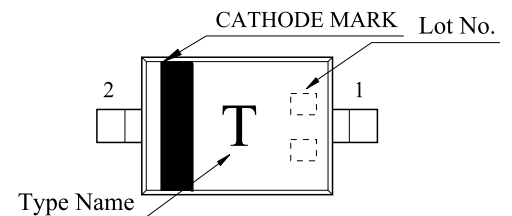


USC

### MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Pulse Power (tp=8/20 μs)	P <sub>PK</sub>	350	W
Peak Pulse Current (tp=8/20 μs)	I <sub>PP</sub>	8	A
Operating Temperature	T <sub>j</sub>	150	
Storage Temperature	T <sub>stg</sub>	-55 150	

### Marking

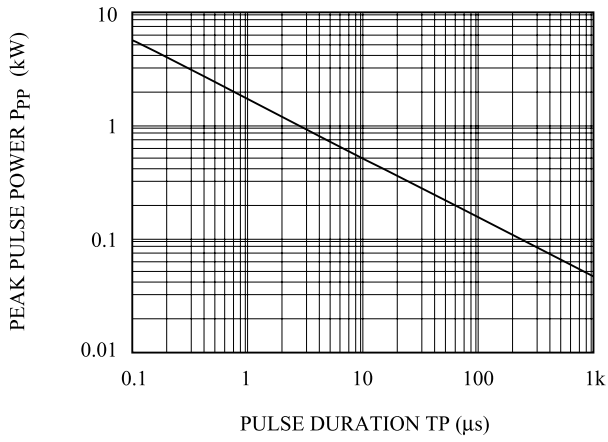


### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

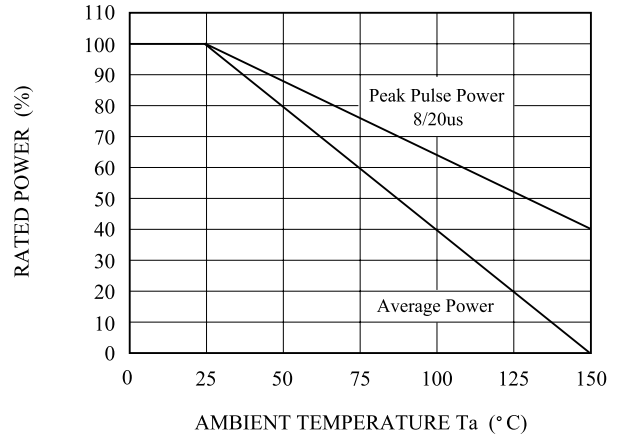
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Reverse Stand-Off Voltage	V <sub>RWM</sub>	-	-	-	24	V	
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>f</sub> =1mA	27.2	-	-	V	
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =24V	-	-	1	μA	
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =5A, tp=8/20 μs	-	-	40	V	
		I <sub>PP</sub> =8A, tp=8/20 μs	-	-	45		
Junction Capacitance	C <sub>J</sub>	V <sub>R</sub> =0V, f=1MHz	-	-	200	pF	
Electrostatic discharge	V <sub>ESD</sub>	IEC61000-4-2	Air	± 20	-	-	KV
			Contact	± 20	-	-	

# PG24GSUSC

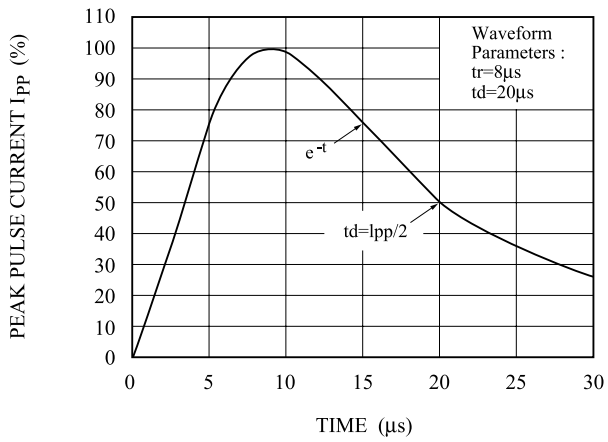
NON-REPETITIVE PEAK PULSE POWER VS. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM



$C_J - V_R$

