

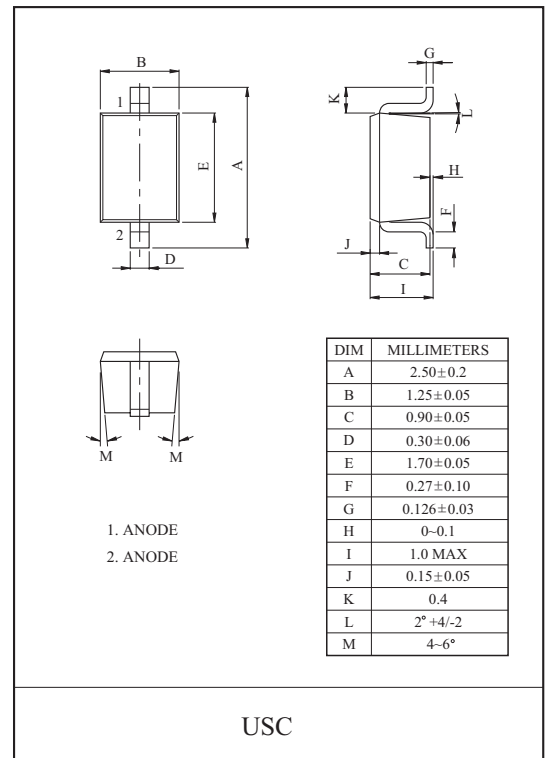
### Protection in Portable Electronics Applications.

#### FEATURES

- 350 Watts peak pulse power (tp=8/20 μs)
- Transient protection for data lines to IEC61000-4-4(EFT) 40A(tp=5/50ns) IEC61000-4-5(Lightning) 8A(tp=8/20 μs)
- Bidirectional Type Pin Configuration Structure.
- 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.
- Suffix U : Qualified to AEC-Q101.  
ex) PG24EBUSC-RTK/HU

#### APPLICATIONS

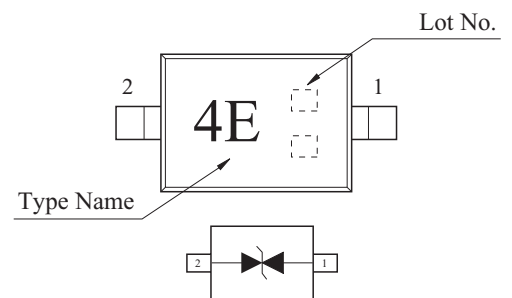
- Cell phone handsets and accessories.
- Microprocessor based equipment.
- Personal digital assistants (PDA s)
- Notebooks, desktops, & servers.
- Portable instrumentation.
- Pagers peripherals.



#### MAXIMUM RATING (Ta=25 °C)

| CHARACTERISTIC                  | SYMBOL           | RATING  | UNIT |
|---------------------------------|------------------|---------|------|
| Peak Pulse Power (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>   | -55 150 |      |
| Storage Temperature             | T <sub>stg</sub> | -55 150 |      |

#### Marking

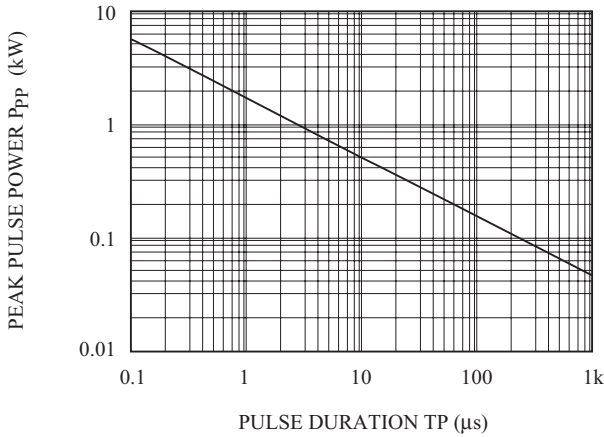


#### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

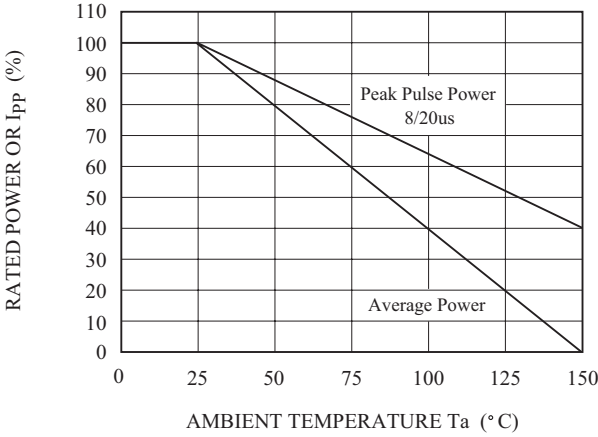
| CHARACTERISTIC            | SYMBOL           | TEST CONDITION                  | MIN.    | TYP. | MAX. | UNIT |    |
|---------------------------|------------------|---------------------------------|---------|------|------|------|----|
| Reverse Stand-Off Voltage | V <sub>RWM</sub> | -                               | -       | -    | 24   | V    |    |
| Reverse Breakdown Voltage | V <sub>BR</sub>  | I <sub>r</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> =8A, tp=8/20 μs | -       | -    | 45   | V    |    |
| Junction Capacitance      | C <sub>J</sub>   | V <sub>R</sub> =0V, f=1MHz      | -       | -    | 50   | pF   |    |
| Electrostatic Discharge   | ESD              | IEC61000-4-2                    | Air     | 20   | -    | -    | KV |
|                           |                  |                                 | Contact | 20   | -    | -    |    |

# PG24EBUSC

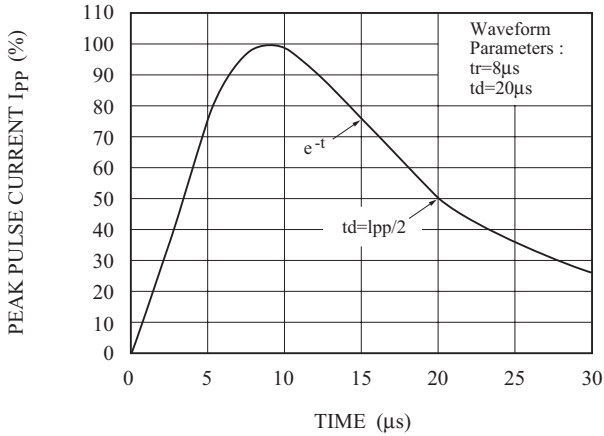
NON-REPETITIVE PEAK PULSE POWER VS. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM



$C_J - V_R$

