

Protection in Portable Electronics Applications.

FEATURES

- 50 Watts peak pulse power ($t_p=8/20\mu s$)
- Transient protection for data lines to
IEC 61000-4-2(ESD) 15kV(Air), 8kV(Contact)
IEC 61000-4-4(EFT) 40A($t_p=5/50ns$)
IEC 61000-4-5(Lightning) 5A($t_p=8/20\mu s$)
- Bidirectional Type Pin Configuration Structure.
- Small package for use in portable electronics.
- Suitable replacement for Multi-Layer Varistors in ESD protection applications.
- Protects one I/O or power line.
- Low clamping voltage.
- Low leakage current.

APPLICATIONS

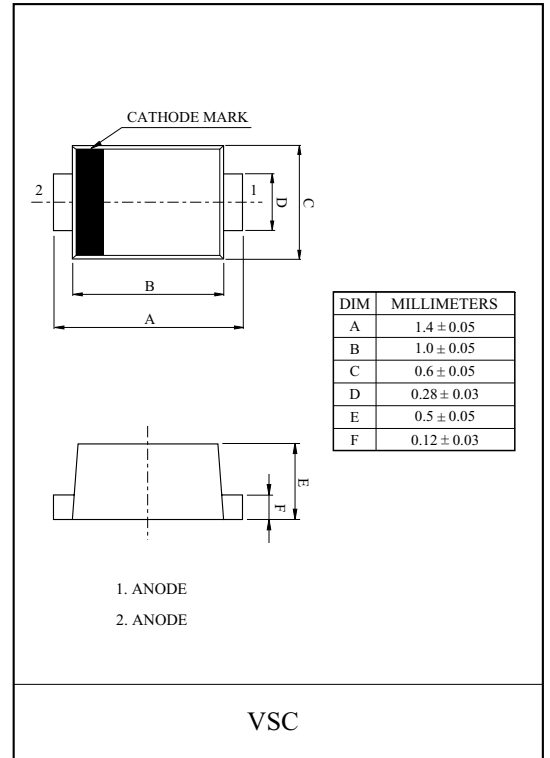
- Cell phone handsets and accessories.
- Microprocessor based equipment.
- Personal digital assistants (PDA s)
- Notebooks, desktops, & servers.
- Portable instrumentation.
- Pagers peripherals.

MAXIMUM RATING ($T_a=25^\circ C$)

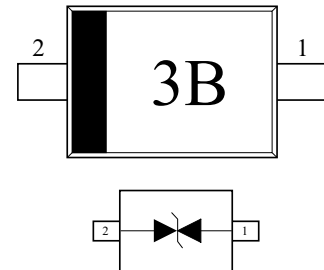
| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-------------------------------------|-----------|-----------|------------|
| Peak Pulse Power($t_p=8/20\mu s$) | P_{PK} | 50 | W |
| Junction Temperature | T_j | -55 ~ 150 | $^\circ C$ |
| Storage Temperature | T_{stg} | -55 ~ 150 | $^\circ C$ |

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|---------------------------|-----------|------------------|------|------|------|---------|
| Reverse Stand-Off Voltage | V_{RWM} | - | - | - | 3.3 | V |
| Zener Voltage | V_Z | $I_t=1mA$ | 4.2 | - | 6.2 | V |
| Reverse Leakage Current | I_R | $V_{RWM}=3.3V$ | - | - | 20 | μA |
| Junction Capacitance | C_J | $V_R=0V, f=1MHz$ | - | - | 25 | pF |

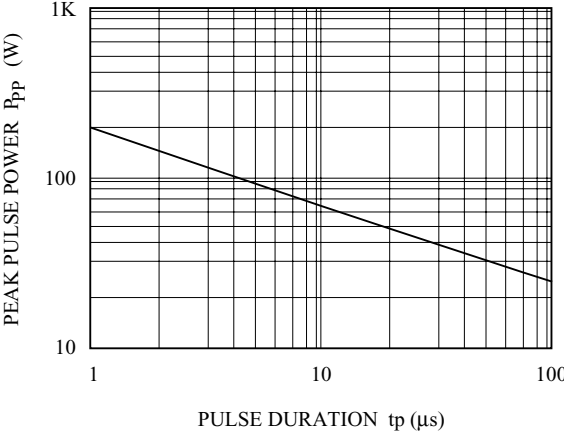


Marking

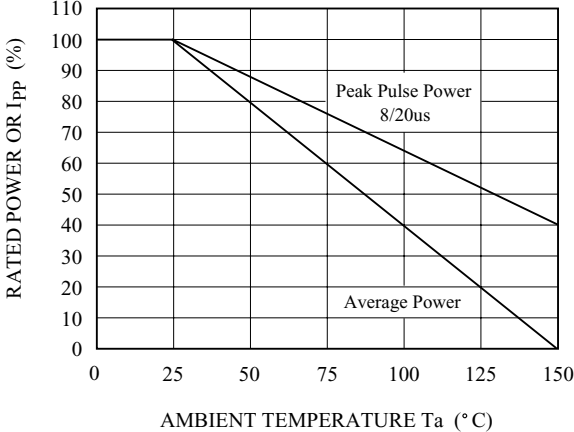


PG03DBVSC

**NON-REPETITIVE PEAK PULSE
POWER VS. PULSE TIME**



POWER DERATION CURVE



PULSE WAVEFORM

