

Protection in Portable Electronics Applications.

FEATURES

- 100 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) 10A($t_p=8/20\mu s$)
- Small package for use in portable electronics.
- Suitable replacement for Multi-Layer Varistors in ESD protection applications.
(* Multi-Layer Varistors [0402 Size])
- Protects on I/O or power line.
- Low clamping voltage.
- Low leakage current.

APPLICATIONS

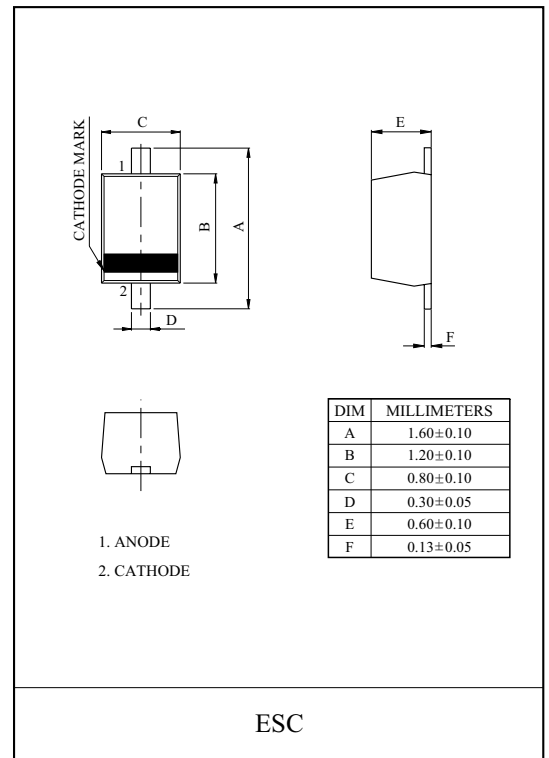
- Cell phone handsets and accessories.
- Microprocessor based equipment.
- Personal digital assistants (PDA's)
- Notebooks, desktops, & servers.
- Portable instrumentation.
- Pagers peripherals.

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

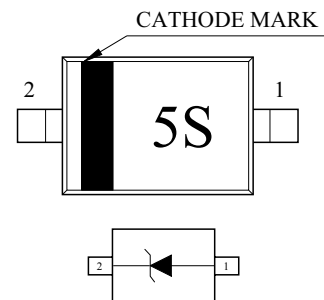
| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|--|-----------|-----------|------------|
| Peak Pulse Power ($t_p=8/20\mu s$) | P_{PK} | 100 | W |
| Peak Pulse Current ($t_p=8/20\mu s$) | I_{PP} | 10 | A |
| Junction Temperature | T_j | -55 ~ 150 | $^\circ C$ |
| Storage Temperature | T_{stg} | -55 ~ 150 | $^\circ C$ |

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

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|---------------------------|-----------|-----------------------------|------|------|------|---------|
| Reverse Stand-Off Voltage | V_{RWM} | - | - | - | 5 | V |
| Reverse Breakdown Voltage | V_{BR} | $I_r=1mA$ | 6 | - | - | V |
| Reverse Leakage Current | I_R | $V_{RWM}=5V$ | - | - | 5 | μA |
| Clamping Voltage | V_C | $I_{PP}=5A, t_p=8/20\mu s$ | - | - | 9.8 | V |
| | | $I_{PP}=10A, t_p=8/20\mu s$ | - | - | 10.0 | |
| Junction Capacitance | C_J | $V_R=0V, f=1MHz$ | - | - | 80 | pF |

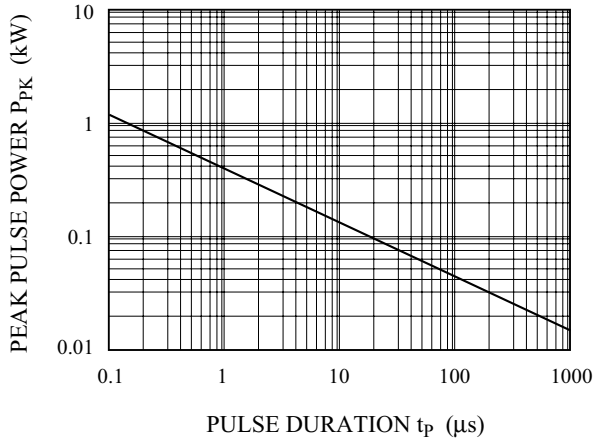


Marking

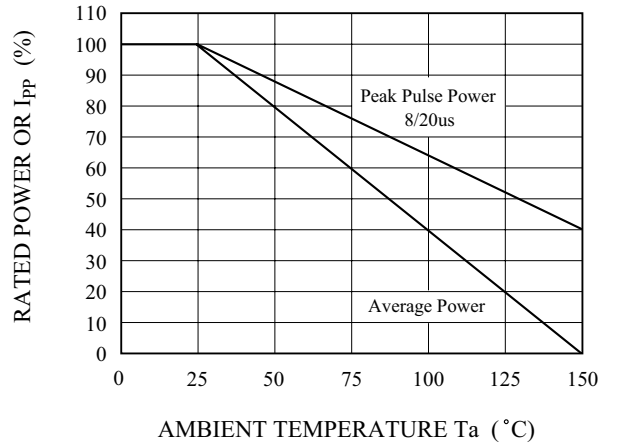


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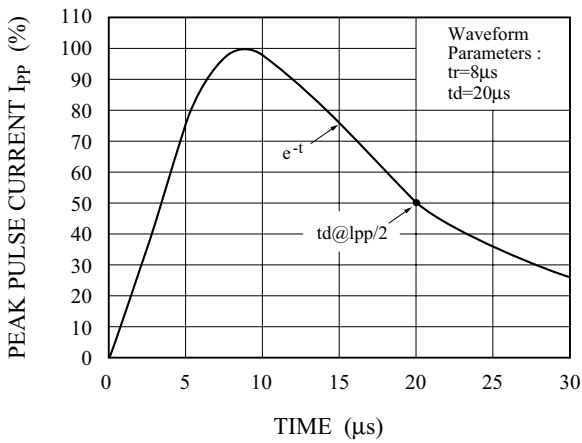
NON-REPETITIVE PEAK PULSE POWER VS. PULSE TIME



POWER DERATION CURVE



PULSE WAVEFORM



$C_J - V_R$

