

UMW PJSD05CTS

1.Features

Complies with following standards:

IEC 61000 -4-2 (ESD) immunity test

Air discharge: ±30kV

Contact discharge: ±30kV

IEC61000 -4-4 (EFT) 40A (5/50ns)

IEC61000 -4-5 (Lightning) 8A (8/20 μs)

■ Ultra low leakage: nA level

■ Operating voltage: 5V

■ Low clamping voltage

■ RoHS Compliant

2.Applications

■ USB 2.0 power and data line

■ Set-top box and digital TV

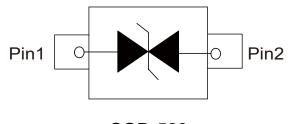
■ Digital video interface (DVI)

■ Notebook Computers

SIM Ports

■ 10/100 Ethernet

3. Pinning information



SOD-523

4.Absolute Maximum Ratings T_{amb}= 25°C

| Parameter | Symbol | Value | Units | |
|---------------------------------|------------------|------------|-------|--|
| Peak Pulse Power (8/20µs) | P _{PP} | 100 | W | |
| ESD per IEC 61000-4-2 (Air) | V | ±30 | kV | |
| ESD per IEC 61000-4-2 (Contact) | V_{ESD} | ±30 | kV | |
| Junction Temperature Range | TJ | -55 to 125 | °C | |
| Storage Temperature Range | T _{STJ} | -55 to 150 | °C | |

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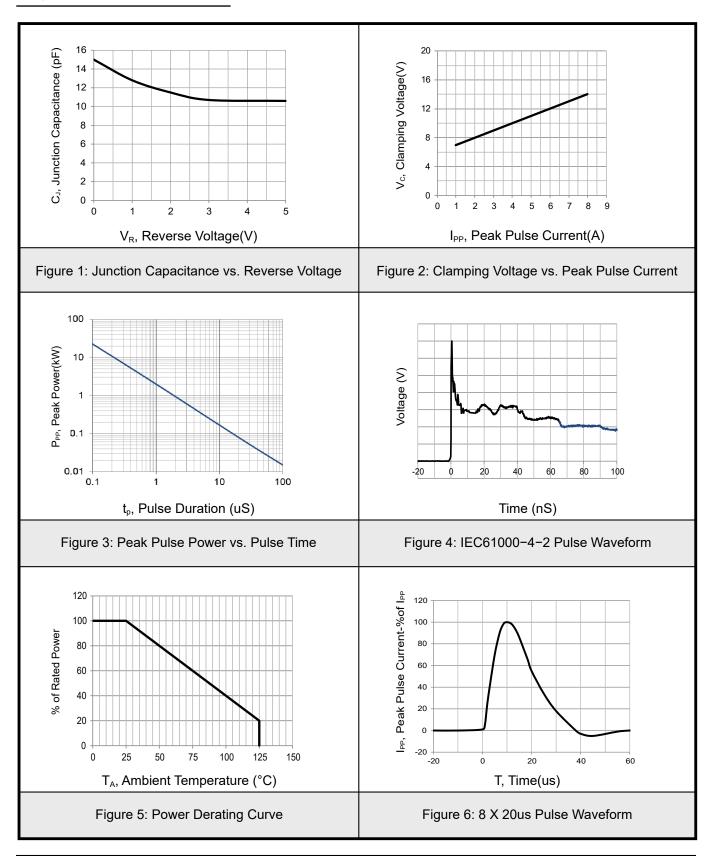


5.Electrical Characteristic (T_A =25°C unless otherwise noted)

| Parameter | Symbol | Conditions | Min | Тур | Max | Units |
|-------------------------|------------------|-------------------------------------|-----|-----|-----|-------|
| Reverse Working Voltage | V _{RWM} | | | | 5 | V |
| Breakdown Voltage | V_{BR} | I _T =1mA | 5.5 | | | V |
| Reverse Leakage Current | I _R | V _{RWM} =5V | | | 1 | μA |
| Clamping Voltage | Vc | I _{PP} =1A(8 x 20µs pulse) | | | 9 | V |
| Clamping Voltage | V _C | I _{PP} =8A(8 x 20µs pulse) | | | 12 | V |
| Junction Capacitance | C _J | V _R =0V, f=1MHz | | 15 | | pF |



6. Typical characteristic



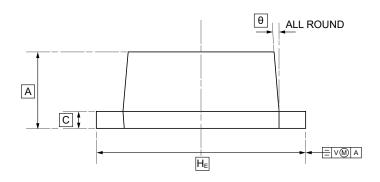


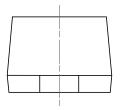


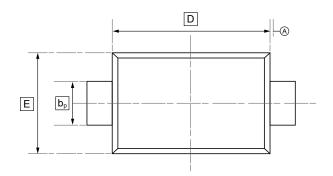




7.SOD-523 Package Outline Dimensions







DIMENSIONS (mm are the original dimensions)

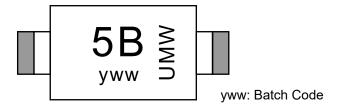
| Symbol | Α | b p | С | D | E | H _E | θ | |
|--------|------|------------|-------|------|------|----------------|----|--|
| Min | 0.58 | 0.3 | 0.100 | 1.15 | 0.75 | 1.5 | 5° | |
| Max | 0.68 | 0.4 | 0.135 | 1.25 | 0.85 | 1.7 | 5 | |







8. Ordering information



| Order Code | Package | Base QTY | Delivery Mode |
|---------------|---------|----------|---------------|
| UMW PJSD05CTS | SOD-523 | 3000 | Tape and reel |

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9.Disclaimer

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