

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

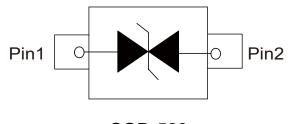
■ Digital video interface (DVI)

■ 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

UMW PJSD05CTS





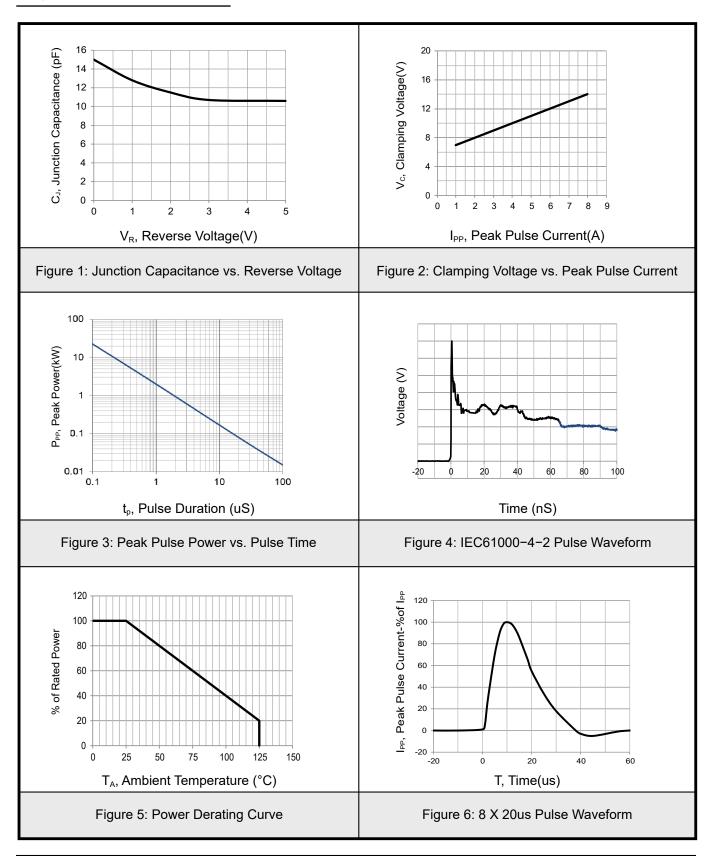


5.Electrical Characteristic (T_A =25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min	Тур	Max	Units
Reverse Working Voltage	V_{RWM}				5	٧
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



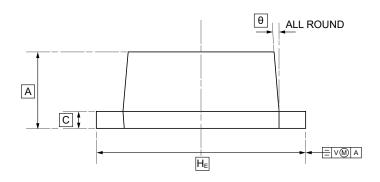


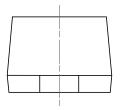


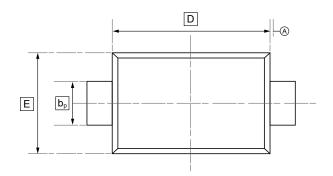




7.SOD-523 Package Outline Dimensions







DIMENSIONS (mm are the original dimensions)

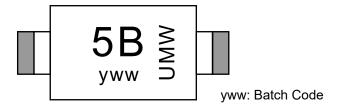
Symbol	Α	b p	С	D	E	H _E	θ
Min	0.58	0.3	0.100	1.15	0.75	1.5	5°
Max	0.68	0.4	0.135	1.25	0.85	1.7	j j







8. Ordering information



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

UMW PJSD05CTS







9.Disclaimer

UMW reserves the right to make changes to all products, specifications. Customers should obtain the latest version of product documentation and verify the completeness and currency of the information before placing an order.

When applying our products, please do not exceed the maximum rated values, as this may affect the reliability of the entire system. Under certain conditions, any semiconductor product may experience faults or failures. Buyers are responsible for adhering to safety standards and implementing safety measures during system design, prototyping, and manufacturing when using our products to prevent potential failure risks that could lead to personal injury or property damage.

Unless explicitly stated in writing, UMW products are not intended for use in medical, life-saving, or life-sustaining applications, nor for any other applications where product failure could result in personal injury or death. If customers use or sell the product for such applications without explicit authorization, they assume all associated risks.

When reselling, applying, or exporting, please comply with export control laws and regulations of China, the United States, the United Kingdom, the European Union, and other relevant countries, regions, and international organizations.

This document and any actions by UMW do not grant any intellectual property rights, whether express or implied, by estoppel or otherwise. The product names and marks mentioned herein may be trademarks of their respective owners.