

1.Features

The PExxxD3ULA is ultra low capacitance transient voltage suppressor arrays, designed to protect applications such as portable electronics and SMART phones. This series is available in both unidirectional and bidirectional configurations and is rated at 350 Watts for an 8/20µs waveform.

3.Features

- 350 Watts Peak Pulse Power per Line
 (8 x 20 us Waveform)
- Replacement for MLV (0805)
- Protects One Power or I/O Port
- Low Clamping Voltage

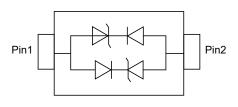
2.Applications

- Hand-Held Portable Applications
- USB Interface
- Automotive Electronics
- Serial and Parallel Ports
- Notebooks, Desktops, Servers
- Networking and Telecom(Ethernet 10/100/1000 Base T)
- Available in Multiple Voltages:

5.0V, 8.0V,12V

- Ultra Low Capacitance: 0.8pF (Typical)
- Response Time is < 1 ns

4.Pinning information



SOD-323







5.Maximum ratings (T_{amb}=25°C Unless Otherwise Specified)

Parameter	Symbol	Maximum	Units
Peak Pulse Power (tp=8/20µs waveform)	P _{PP}	350	Watts
ESD Rating per IEC61000-4-2: Contact		8	kV
Air		15	kV
Lead Soldering Temperature	T∟	260 (10 sec.)	°C
Temperature Range	TJ	-55 to 150	°C
Storage Temperature Range	T _{STG}	-55 to 150	°C
Lead Solder Temperature - Maximum (10 Second Duration)	T∟	260	°C

Notes:

Maximum ratings are those values beyond which device damage can occur. Maximum ratings applied to the device are individual stress limit values (not normal operating conditions) and are not valid simultaneously. If these limits are exceeded, device functional operation is not implied, damage may occur and reliability may be affected.

1. Non-repetitive current pulse, per Figure 1.





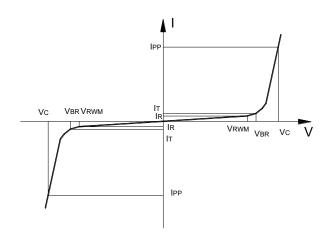
6.Electrical Characteristics

	V _{RWM} I _R @	I _R @ V _{RWM}	V _{BR} @1mA	V _{C1}	I _{PP} @8/20us	Capacitance		P_{PK}
Device	¥ RWM	IR W VRWM	(Volts)	@ 1A	(Amps)	@ V _R =0V, 1MHz(pF)		PK
	(V)	(uA)	Min	(V)	Max.	Тур	Max.	(W)
PE5V0D3ULA	5	1	6	9.8	17	0.8	1.5	350
PE8V0D3ULA	8	1	8.5	13.6	15	0.8	1.5	350
PE12VD3ULA	12	1	13.3	17.8	11	0.8	1.5	350

Notes:

Junction capacitance is measured in VR=0V,F=1MHz.

7.Electrical Parameters (T_A =25°C unless otherwise noted)



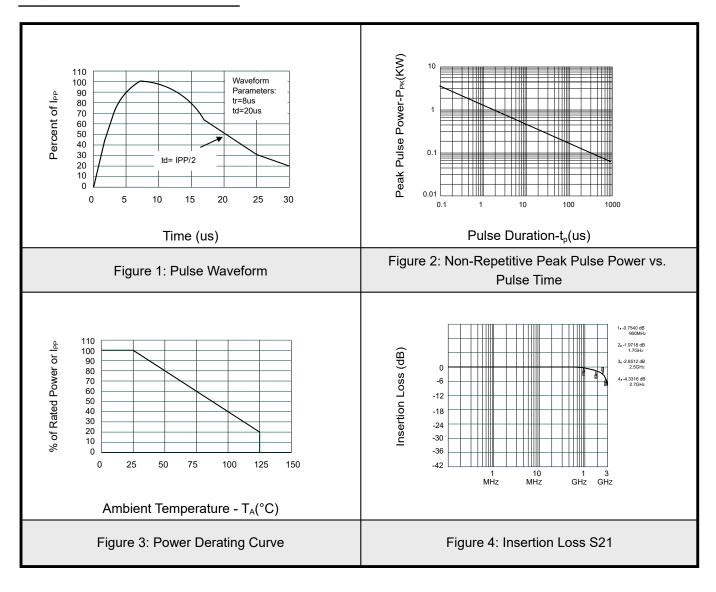
Symbol	Symbol					
V_{RWM}	Working PeakReverse Voltage					
V_{BR}	Breakdown Voltage @ I _T					
Vc	Clamping Voltage @ I _{PP}					
I _T	Test Current					
I _{RM}	Leakage current at V _{RWM}					
I _{PP}	Peak pulse current					
Co	Off-state Capacitance					
Сл	Junction Capacitance					







8. Typical characteristic

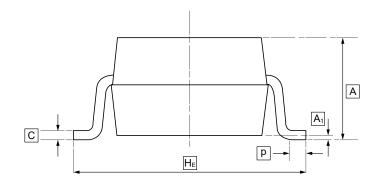


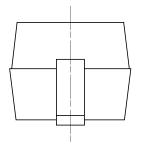


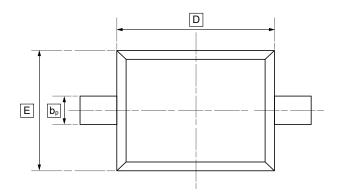




9.SOD-323 Package Outline Dimensions







DIMENSIONS (mm are the original dimensions)

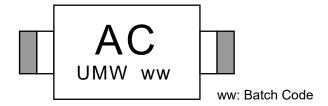
Symbol	Α	bр	С	D	E	H _E	A ₁	Р
Min	0.90	0.25	0.10	1.60	1.15	2.30	0.01	0.20
Max	1.20	0.40	0.15	1.80	1.35	2.80	0.10	0.50







10.Ordering information



Order Code	Marking	Package	Base QTY	Delivery Mode
UMW PE5V0D3ULA	AC	SOD-323	3000	Tape and reel
UMW PE8V0D3ULA	ВС	SOD-323	3000	Tape and reel
UMW PE12VD3ULA	DC	SOD-323	3000	Tape and reel







11.Disclaimer

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