

UMW NUP3105LT1G

1.Description

The NUP3105LT1G is a Transient Voltage Suppressor Arrays that designed to protect components which are connected to data and transmission lines against electrostatic discharge (ESD), electrical fast Transients (EFT), and lightning. All pins are rated to withstand 30kV ESD pulses

3.Features

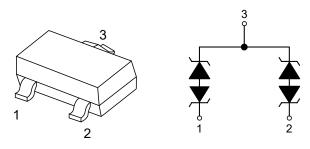
- IEC 61000-4-2 Level 4 ESD Protection
- -±30kV Contact Discharge
- -±30kV Air Discharge
- 450W Peak pulse Power (8/20us)

2.Applications

- Portable electronics
- Control & monitoring systems
- Servers, notebooks, and desktop PCs
- CAN bus protection
- Cellular handsets and accessories

- Low clamping voltage
- Working voltage: 36V
- Low leakage current
- ESD Protection > 15kV

4. Pinning information



SOT-23







5.Absolute Maximum Rating

Parameter	Symbol	Min.	Max.	Units
Peak pulse power (t _p =8/20us)@25°C	P _{PK}		450	W
Peak pulse current (t _p =8/20us)@25°C	I _{PP}		4	Α
ESD (IEC61000-4-2 air discharge) @25°C			±30	kV
ESD (IEC61000-4-2 contact discharge) @25°C	V_{ESD}		±30	kV
Junction temperature	TJ		150	°C
Operating temperature		-40	125	°C
Storage temperature	T _{STG}	-55	150	°C
Lead temperature	T∟		260	°C

Table-3 Absolute Maximum rating





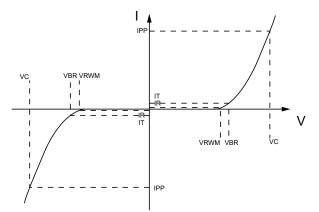


6.Electrical Characteristic (T_A=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min	Тур	Max	Units
Reverse Stand-Off Voltage	V_{RWM}			36		V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	38			V
Reverse Leakage Current	I _R	V _{RWM} =36V			1	μA
Clamping Voltage	Vc	I _{PP} =1A, t _P =8/20μs		55		V
Clamping Voltage	V _C	I _{PP} =4A, t _P =8/20μs		72		V
Junction capacitance	C _J	V _R =0V, f=1MHz		25		pF

Table-4 Electrical Characteristics

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



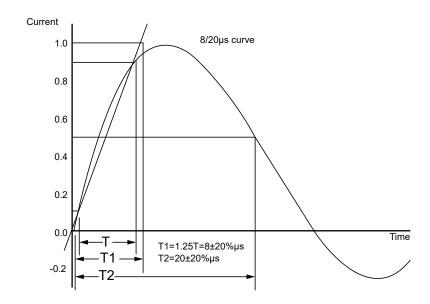
Symbol	Parameter					
V_{RWM}	Peak Reverse Working Voltage					
I _R	Reverse Leakage Current @ V _{RWM}					
V_{BR}	Breakdown Voltage @ I _⊤					
I _T	Test Current					
I _{PP}	Maximum Reverse Peak Pulse Current					
V _c	Clamping Voltage @ I _{PP}					







8. Typical characteristic

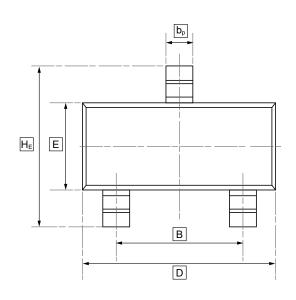


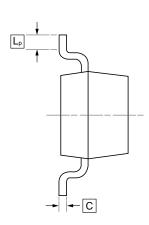


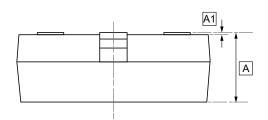




9.S.O.T.-23.Package Outline Dimensions







DIMENSIONS (mm are the original dimensions)

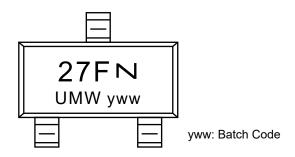
Symbol	Α	В	þр	С	D	E	H _E	A1	Lp
Min	0.95	1.78	0.35	0.08	2.70	1.20	2.20	0.013	0.20
Max	1.40	2.04	0.50	0.19	3.10	1.65	3.00	0.100	0.50







10.Ordering information



Order Code	Package	Base QTY	Delivery Mode	
UMW NUP3105LT1G	SOT-23	3000	Tape and reel	







11.Disclaimer

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