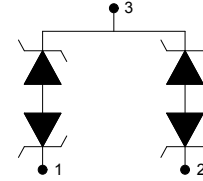


Description

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



Features

- IEC 61000-4-2 Level 4 ESD Protection
 - ±30kV Contact Discharge
 - ±30kV Air Discharge
- 450W Peak pulse Power (8/20us)
- Low clamping voltage
- Working voltage: 36V
- Low leakage current
- ESD Protection > 15kV

Applications

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

Absolute Maximum rating Over operating free-air temperature range (unless otherwise noted)

Parameters	Symbol	Min.	Max.	Unit
Peak pulse power (tp=8/20us)@25°C	P _{pk}		450	W
Peak pulse current (tp=8/20us)@25°C	I _{PP}		4	A
ESD (IEC61000-4-2 air discharge) @25°C	V _{ESD}		±30	kV
ESD (IEC61000-4-2 contact discharge) @25°C	V _{ESD}		±30	kV
Junction temperature	T _J		150	°C
Operating temperature	T _{OP}	-40	125	°C
Storage temperature	T _{STG}	-55	150	°C
Lead temperature	T _L		260	°C

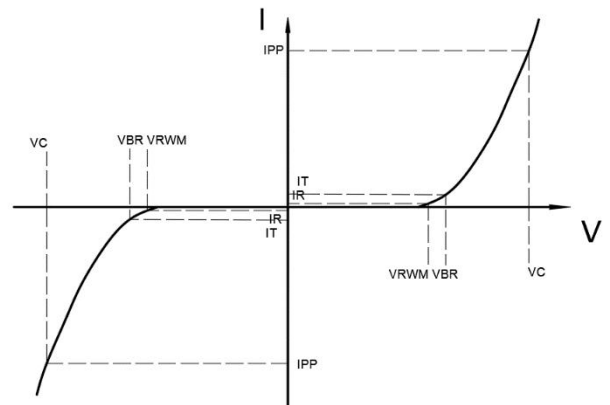
Table-3 Absolute Maximum rating

Electrical Characteristics At TA = 25°C unless otherwise noted

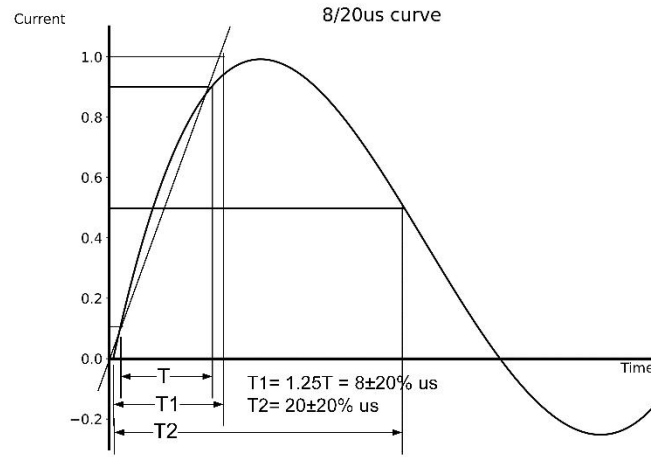
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Stand-off Voltage	V_{RWM}			36		V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	38			V
Reverse Leakage Current	I_R	$V_{RWM}=36V$			1	μA
Clamping Voltage	V_C	$I_{PP}=1A; t_p=8/20\mu s$		55		V
Clamping Voltage	V_C	$I_{PP}=4A; t_p=8/20\mu s$		72		V
Junction Capacitance	C_J	$V_R=0V; f=1MHz$		25		pF

Table-4 Electrical Characteristics

Symbol	Parameters
V_{RWM}	Peak Reverse Working Voltage
I_R	Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}



Typical Characteristic



Marking

Ordering information

Order code	Package	Baseqty	Deliverymode
UMW NUP3105LT1G	SOT-23	3000	Tape and reel

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[P6KE13CA](#) [P6KE43CA](#) [P6KE6.8CA](#) [P6KE8.2](#) [P6SMBJ20CA](#) [JANTX1N6072A](#) [SR2835ESKG](#) [SA90CA](#)