200 WATT TVS COMPONENT



DESCRIPTION

The PLW1201H is a transient voltage suppressor array designed to protect applications such as wireless telecommunication devices, PCMCIA cards and portable electronics. This device is available in a unidirectional configuration with a working voltage of 12.0V and a minimum breakdown voltage of 13.3V. The PLW1201H is rated at 200W peak pulse power (8/20µs), which is sufficient protection for tertiary type lightning threats at key interface locations.

The PLW1201H is ideally suited to protect data I/O ports against ESD and EFT. This device meets the requirements of IEC 61000-2 and IEC 61000-4-4. Packaged in a SC-79 configuration, this device can be substituted for similar 0803 outlines.

FEATURES

- Compatible with IEC 61000-4-2 (ESD): Air 15kV, Contact 8kV
- Compatible with IEC 61000-4-4 (EFT): 40A, 5/50ns
- 200 Watts Peak Pulse Power per Line (tp = 8/20μs)
- Cable Discharge Event (CDE) Protection
- Replacement for MLV (0803)
- One Unidirectional Line of Protection
- Unidirectional Configuration
- RoHS Compliant
- REACH Compliant

MECHANICAL CHARACTERISTICS

- Molded JEDEC SC-79 Package
- Approximate Weight: 2 milligrams
- Lead-Free Pure-Tin Plating (Annealed)
- Solder Reflow Temperature:

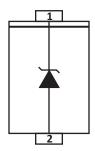
Pure-Tin - Sn, 100: 260-270°C

- 8mm Tape and Reel Per EIA Standard 481
- Flammability Rating UL 94V-0

APPLICATIONS

- Ethernet 10/100/1000 Base T
- SMART Phones
- Portable Electronics

PIN CONFIGURATION

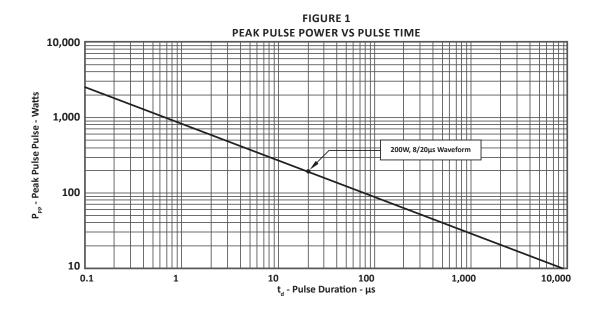


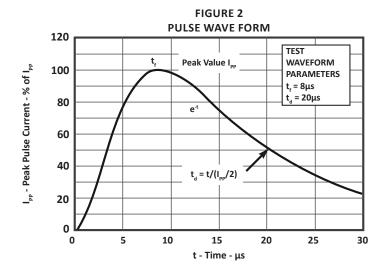
TYPICAL DEVICE CHARACTERISTICS

MAXIMUM RATINGS @ 25°C Unless Otherwise Specified								
PARAMETER	SYMBOL	VALUE	UNITS					
Peak Pulse Power (tp = 8/20μs) - See Figure 1	P _{pp}	200	Watts					
Peak Pulse Current (tp = 8/20μs)	I _{pp}	10	Amps					
Operating Temperature	T _A	-55 to 150	°C					
Storage Temperature	T _{stg}	-55 to 150	°C					
Soldering Temperature for 10 seconds	T _L	265	°C					

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified										
PART NUMBER										
		V _{WM} VOLTS	@ 1mA V _(BR) VOLTS	@ 10mA V _F VOLTS	@ I _p = 1A V _c VOLTS	@ I _p = 5A V _c VOLTS	@V _{wм} Ι _D μΑ	@0V, 1MHz C pF		
PLW1201H	12	12.0	13.3	0.8	19.0	24.0	1	50		

TYPICAL DEVICE CHARACTERISTICS



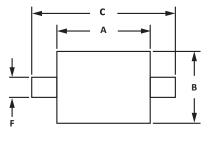


SC-79 PACKAGE INFORMATION

OUTLINE DIMENSIONS								
DIM	MILLIN	IETERS	INCHES					
	MIN	MAX	MIN	MAX				
Α	1.10	1.30	0.043	0.049				
В	0.70	0.90	0.028	0.035				
С	1.50	1.70	0.059	0.066				
D	0.50	0.70	0.020	0.028				
E	0.08	0.20	0.003	0.008				
F	0.30	BSE	0.012	2 BSE				

NOTES

- 1. Dimensioning and tolerances per ANSI Y14.M, 1985.
- 2. Controlling dimension: millimeters.
- 3. Dimensions are exclusive of mold flash and metal burrs.

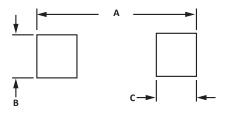




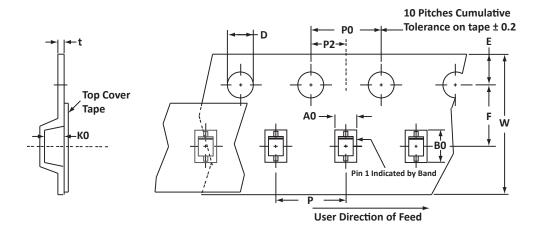
PAD LAYOUT DIMENSIONS								
DIM	MILLIN	IETERS	INCHES					
DIIVI	MIN	MAX	MIN	MAX				
А	1.85	2.03	0.070	0.080				
В	0.38	0.64	0.015	0.025				
С	0.25	0.51	0.010	0.020				

NOTES

1. Controlling dimension: millimeters



TAPE AND REEL



SPECIFICATIONS												
REEL DIA.	TAPE WIDTH	A0	В0	ко	D	E	F	W	P0	P2	Р	tmax
178mm (7")	8mm	1.00 ± 0.10	1.95 ± 0.05	0.075 ± 0.05	1.50 ± 0.10	1.75 ± 0.10	3.50 ± 0.05	8.00 ± 0.30	4.00 ± 0.10	2.00 ± 0.05	4.00 ± 0.10	0.25

NOTES

- 1. Dimensions are in millimeters.
- 2. Surface mount product is taped and reeled in accordance with EIA-481.
- 3. Empty pocket between sprocket holes.
- 4. Suffix T74 = 7" Reel 4,000 pieces per 8mm tape.
- 5. Marking on Part marking code (see page 2), polarity band and date code.

Package outline, pad layout and tape specifications per document number 06037.R3 8/10.

ORDERING INFORMATION									
BASE PART NUMBER LEADFREE SUFFIX TAPE SUFFIX QTY/REEL REEL SIZE TUBE QTY									
PLW1201H	-n/a	-T74	4,000	7"	n/a				
This device is only available in a Lead-Free configuration.									

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 www.protekdevices.com



COMPANY INFORMATION

COMPANY PROFILE

In business more than 20 years, ProTek Devices™ is a privately-held company located in Tempe, Arizona, that offers a product line of transient voltage suppressors (TVS); avalanche breakdown diodes; steering diode TVS arrays and other surge suppressor component products. These TVS devices protect electronic systems from the effects of lightning, electrostatic discharge (ESD), nuclear electromagnetic pulses (NEMP), inductive switching and EMI / RFI. ProTek Devices also offers high performance interface and linear products that include analog switches; multiplexers; LED drivers; audio control ICs; RF and related high frequency products. The analog devices work in a host of consumer; industrial; automotive and other applications.

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