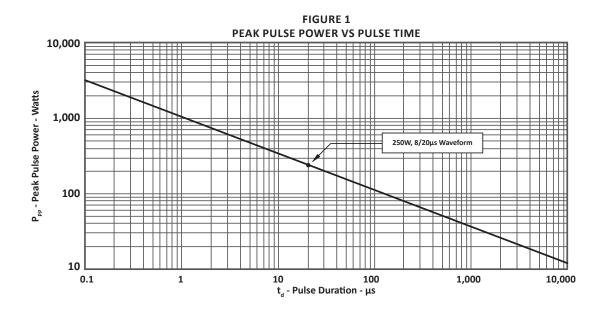
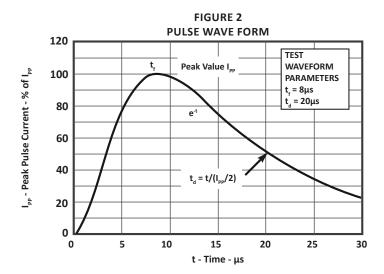
# TYPICAL DEVICE CHARACTERISTICS

MAXIMUM RATINGS @ 25°C Unless Otherwise Specified									
PARAMETER SYMBOL VALUE UNI									
Operating Temperature	$T_{_{A}}$	-55 to 150	°C						
Storage Temperature	T <sub>STG</sub>	-55 to 150	°C						
Peak Pulse Power (tp = 8/20μs) - See Figure 1	P <sub>PP</sub>	250	Watts						
Peak Pulse Current (tp = 8/20μs)	I <sub>PP</sub>	16	А						
Soldering Temperature for 10 seconds	T <sub>L</sub>	265	°C						

	ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified										
PART NUMBER	DEVICE MARKING	RATED STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE	TYPICAL FORWARD VOLTAGE	MAXIMUM CLAMPING VOLTAGE (Fig. 2)	MAXIMUM CLAMPING VOLTAGE (Fig. 2)	MAXIMUM LEAKAGE CURRENT	TYPICAL CAPACITANCE			
		V <sub>wM</sub> VOLTS	@ 1mA V <sub>(BR)</sub> VOLTS	@10mA V <sub>F</sub> VOLTS	@I <sub>p</sub> = 5A V <sub>c</sub> VOLTS	@I <sub>p</sub> = 16A V <sub>c</sub> VOLTS	@V <sub>wм</sub> Ι <sub>D</sub> μΑ	@0V, 1MHz C pF			
PLW0501P	К	5.0	6.0	0.8	9.8	12.5	5	120			

## **TYPICAL DEVICE CHARACTERISTICS**





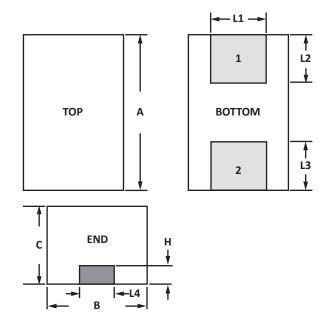


## **DFN-2-0402 PACKAGE INFORMATION**

OUTLINE DIMENSIONS									
DIM	MILLIN	1ETERS	INCHES						
ווווט	MIN	MAX	MIN	MAX					
А	0.99	1.04	0.039	0.041					
В	0.58	0.64	0.023	0.025					
С	0.43	0.48	0.017	0.019					
Н	0.13	0.18	0.005	0.007					
L1	0.28	0.33	0.011	0.013					
L2	0.23	0.28	0.009	0.011					
L3	0.23	0.28	0.009	0.011					
L4	0.18	0.23	0.007	0.009					

## NOTES

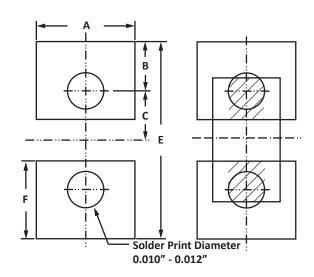
- 1. Dimensioning and tolerances per ANSI Y14.M, 1985.
- 2. Controlling dimension: inches.



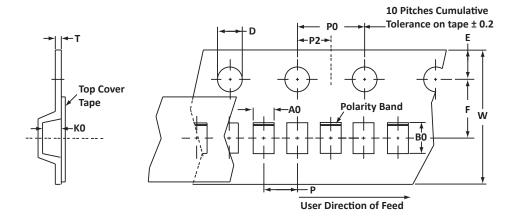
PAD LAYOUT DIMENSIONS								
DIM	MILLIN	IETERS	INCHES					
	MIN	MAX	MIN	MAX				
Α	0.737	0.787	0.029	0.031				
В	0.331	0.381	0.013	0.015				
С	0.356	0.406	0.014	0.016				
Е	1.423	1.523	0.056	0.060				
F	0.534	0.584	0.021	0.023				

### **NOTES**

- 1. Controlling dimension: inches.
- 2. Decimal tolerances for mounting pad: ±0.003" (±0.08 mm).



## **TAPE AND REEL**



SPECIFICATIONS												
REEL DIA.	TAPE WIDTH	A0	В0	ко	D	E	F	w	P0	P2	Р	tmax
178mm (7")	8mm	0.70 ± 0.05	1.15 ± 0.05	0.60 ± 0.003	1.55 ± 0.10	1.75 ± 0.10	3.50 ± 0.05	8.00 ± 0.30	4.00 ± 0.10	2.00 ± 0.05	2.00 ± 0.05	0.25

### NOTES

- 1. Dimensions are in millimeters.
- 2. Surface mount product is taped and reeled in accordance with EIA-481.
- 3. Empty pocket beneath sprocket holes.
- 4. Polarity Band on unidirectional devices only.
- 5. Suffix T73 = 7'' Reel 3,000 pieces per 8mm tape (sprocket hole skipped).
- 6. Marking on Part marking code (see page 2) and polarity band.

Package outline, pad layout and tape specifications per document number 06094.R1 3/11 - Option 1.

ORDERING INFORMATION								
BASE PART NUMBER LEADFREE SUFFIX TAPE SUFFIX QTY/REEL REEL SIZE TUBE QTY								
PLW0501P	-LF	-T73	3,000	7"	n/a			
This device is only available in a Lead-Free configuration.								



## COMPANY INFORMATION

#### **COMPANY PROFILE**

In business more than 25 years, ProTek Devices™ is a privately held semiconductor company. The company offers a product line of overvoltage protection and overcurrent protection components. These include transient voltage suppressor array (TVS arrays) avalanche breakdown diode, steering diode TVS array and electronics SMD chip fuses. These components deliver circuit protection in electronic systems from numerous overvoltage and overcurrent events. They include lightning; electrostatic discharge (ESD); nuclear electromagnetic pulses (NEMP); inductive switching; and electromagnetic interference (EMI) / radio frequency interference (RFI). ProTek Devices also offers LED wafer die for ESD protection and related high frequency products. ProTek Devices is ISO 9001:2015 certified.

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