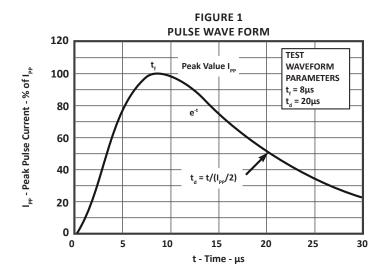


TYPICAL DEVICE CHARACTERISTICS

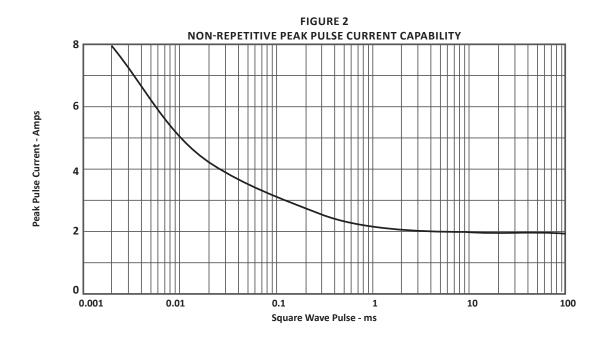
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified							
PARAMETER	SYMBOL	VALUE	UNITS				
Operating Temperature	T _A	-55 to 150	°C				
Storage Temperature	T _{stg}	-55 to 150	°C				
Continuous Power Dissipation	P _{PC}	145	mW				

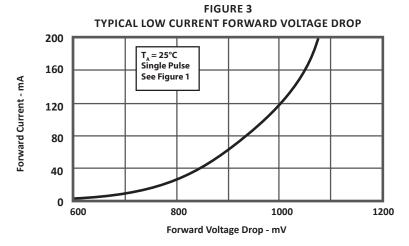
ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified									
PART NUMBER	DEVICE MARKING	REPETITIVE PEAK REVERSE VOLTAGE (Note 1) V _{RRM}	TYPICAL FORWARD VOLTAGE 8/20µs @ 1A V _F	MAXIMUM PEAK PULSE FORWARD CURRENT @ 8/20µs	MAXIMUM REVERSE LEAKAGE CURRENT (Note 2) V RRM I R	MAXIMUM QUIESCENT SUPPLY CURRENT (Note 3) @ 20V IRQ	TYPICAL CAPACITANCE OV, 1MHz C,		
		VOLTS	VOLTS	AMPS	nA	nA	pF		
ET721	STA	50	2	12	20	200	3		

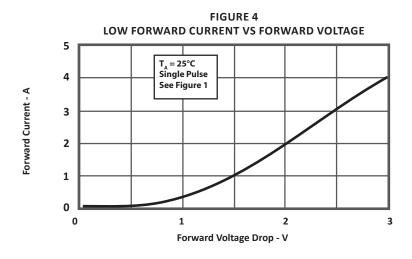
- $1. \quad V_{\text{RRM}} \text{ is +V}_{cc} \text{ for pin 8, -V}_{ee} \text{ for pin 4.} \\ 2. \quad +20 \text{V from pin 8 to 1, 2, 3, 5, 6 and 7. } -20 \text{V from pin 4 to 1, 2, 3, 5, 6 and 7.}$
- 3. +20V from pin 8 to 4.



TYPICAL DEVICE CHARACTERISTICS

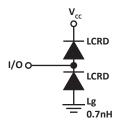






SPICE MODEL

FIGURE 1 SPICE MODEL



LCRD - Low Capacitance Rectifier Diode Lg - Lead Inductance

TABLE 1 - SPICE PARAMETERS							
PARAMETER	UNIT	LCRD					
BV	V	200					
IBV	μΑ	0.01					
C _{jo}	pF	3					
I _s	А	1E-13					
Vj	V	0.6					
М	-	0.33					
N	-	1					
R_s	Ohms	0.31					
TT	S	1E-9					
EG	eV	1.11					



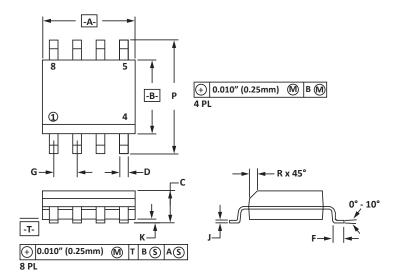
PROJEK DEVICES Only One Name Means ProTek Tion*

SO-8 PACKAGE INFORMATION

OUTLINE DIMENSIONS								
DIM	MILLIN	IETERS	INCHES					
	MIN	MAX	MIN	MAX				
Α	4.80	5.00	0.189	0.196				
В	3.80	4.00	0.150	0.157				
С	1.35	1.75	0.054	0.068				
D	0.35	0.49	0.014	0.019				
F	0.40	1.25	0.016	0.049				
G	1.27	BSC	0.05 BSC					
J	0.18	0.25	0.007	0.009				
К	0.10	0.25	0.004	0.008				
Р	5.80	6.20	0.229	0.244				
R	0.25 0.50		0.010	0.019				

NOTES

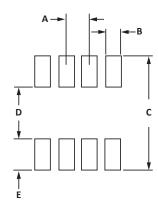
- 1. -T- = Seating plane and datum surface.
- 2. Dimensions "A" and "B" are datum.
- 3. Dimensions "A" and "B" do not include mold protrusion.
- 4. Maximum mold protrusion is 0.015" (0.380mm) per side.
- 5. Dimensioning and tolerances per ANSI Y14.5M, 1982.
- 6. Dimensions are exclusive of mold flash and metal burrs.



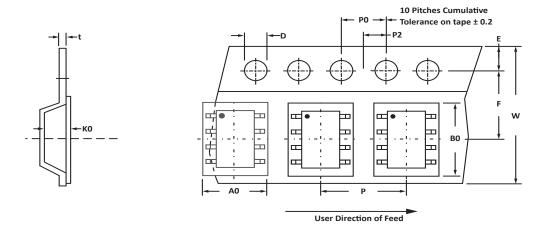
PAD LAYOUT DIMENSIONS								
DIM	MILLIN	IETERS	INCHES					
	MIN	MAX	MIN	MAX				
А	1.14	1.40	0.045	0.055				
В	0.64	0.89	0.025	0.035				
С	6.22	-	0.245	-				
D	3.94	4.17	0.155	0.165				
Е	1.02	1.27	0.040	0.050				

NOTES

1. Controlling dimension: inches.



TAPE AND REEL



SPECIFICATIONS												
REEL DIA.	TAPE WIDTH	A0	В0	ко	D	E	F	w	P0	P2	Р	tmax
178mm (7")	12mm	6.50 ± 0.10	5.40 ± 0.10	2.00 ± 0.10	1.50 ± 0.10	1.75 ± 0.10	5.50 ± 0.05	12.00 ± 0.30	4.00 ± 0.12	2.00 ± 0.10	8.00 ± 0.10	0.25

NOTES

- 1. Dimensions are in millimeters.
- 2. Surface mount product is taped and reeled in accordance with EIA-481.
- 3. Suffix T7 = 7" Reel 1,000 pieces per 12mm tape.
- 4. Suffix T13 = 13" Reel 2,500 pieces per 12mm tape.
- 5. Bulk product shipped in tubes of 98 pieces per tube.
- 6. Marking on Part marking code (see page 2), date code, logo and pin one defined by dot on top of package.

ORDERING INFORMATION										
BASE PART NUMBER	RT NUMBER LEADFREE SUFFIX TAPE SUFFIX QTY/REEL REEL SIZE TUBE Q									
ET721	-LF	-T7	1,000	7"	98					
ET721	-LF	-T13	2,500	13"	98					
This device is only available in	This device is only available in a Lead-Free configuration.									

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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.

CONTACT US

Corporate Headquarters

2929 South Fair Lane Tempe, Arizona 85282 USA

By Telephone

General: 602-431-8101

Sales: & Marketing: 602-414-5109 Customer Service: 602-414-5114 Product Technical Support: 602-414-5107

By Fax

General: 602-431-2288

By E-mail:

Asia Sales: <u>asiasales@protekdevices.com</u>
Europe Sales: <u>europesales@protekdevices.com</u>
U.S. Sales: <u>ussales@protekdevices.com</u>
Distributor Sales: <u>distysales@protekdevices.com</u>
Customer Service: <u>service@protekdevices.com</u>

Customer Service: service@protekdevices.com
Technical Support: support@protekdevices.com

ProTek Devices (Asia Pacific) Pte. Ltd.

8 Ubi Road 2, #06-19

Zervex

Singapore - 408538 Tel: +65-67488312 Fax: +65-67488313

Web

www.protekdevices.com

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