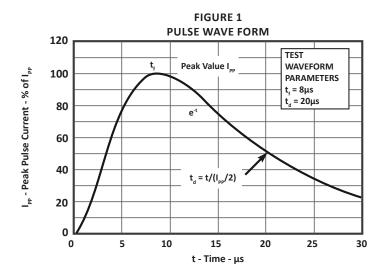
TYPICAL DEVICE CHARACTERISTICS

05177

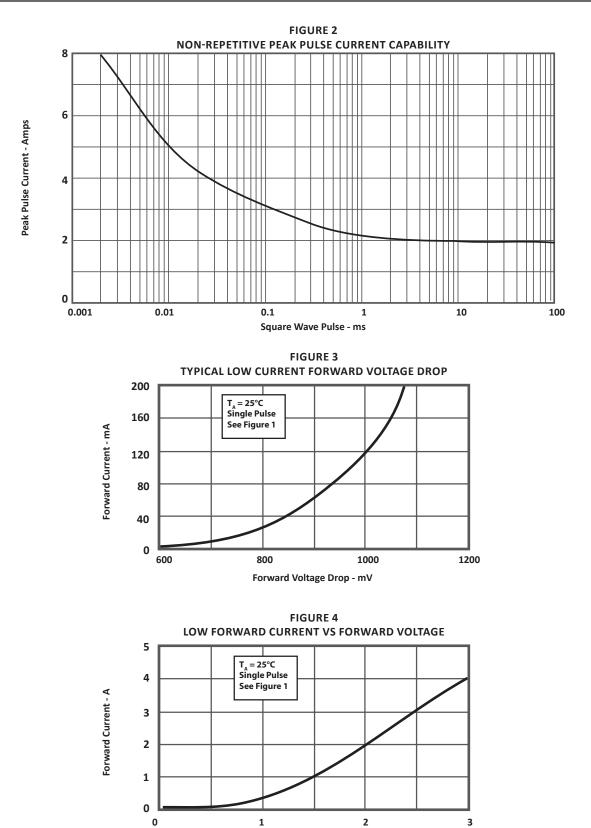
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified					
PARAMETER	SYMBOL	VALUE	UNITS		
Operating Temperature	T _A	-55 to 150	°C		
Storage Temperature	T _{stg}	-55 to 150	°C		
Continuous Power Dissipation	P _{PC}	145	mW		

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified							
PART NUMBER	DEVICE MARKING	REPETITIVE PEAK REVERSE VOLTAGE V _{RRM} VOLTS	TYPICAL FORWARD VOLTAGE @ 50mA V _F VOLTS	MAXIMUM PEAK PULSE FORWARD CURRENT @ 8/20µs I _{FM} AMPS	MAXIMUM REVERSE LEAKAGE CURRENT V _{RRM} @ 18V I _R nA	MAXIMUM QUIESCENT SUPPLY CURRENT @ 20V I _{RQ} nA	TYPICAL CAPACITANCE 0V, 1MHz C, pF
DALC112S1	PSC	20	1.3	12	20	200	5



TYPICAL DEVICE CHARACTERISTICS

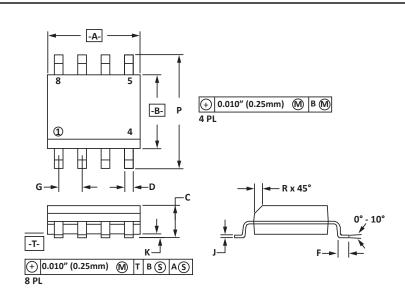
0517



Forward Voltage Drop - V

SO-8 PACKAGE INFORMATION

OUTLINE DIMENSIONS						
DIM	MILLIMETERS		INCHES			
	MIN	MAX	MIN	MAX		
А	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

05177

1. -T- = Seating plane and datum surface.

2. Dimensions "A" and "B" are datum.

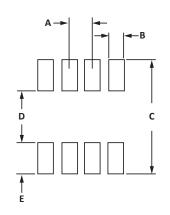
3. Dimensions "A" and "B" do not include mold protrusion.

4. Maximum mold protrusion is 0.015" (0.380mm) per side.

5. Dimensioning and tolerances per ANSI Y14.5M, 1982.

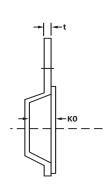
6. Dimensions are exclusive of mold flash and metal burrs.

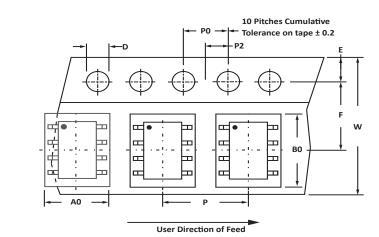
PAD LAYOUT DIMENSIONS					
DIM	MILLIMETERS		INCHES		
	MIN	MAX	MIN	MAX	
А	1.14	1.40	0.045	0.055	
В	0.64	0.89	0.025	0.035	
С	6.22	-	0.245	-	
D	3.94	4.17	0.155	0.165	
E	1.02	1.27	0.040	0.050	
NOTES 1. Controlling dimension: inches.					



TAPE AND REEL

05177





SPECIFICATIONS TAPE REEL DIA. A0 **B0** к0 D Е F w **P0** P2 Ρ tmax WIDTH $6.50 \pm 0.10 \quad 5.40 \pm 0.10 \quad 2.00 \pm 0.10 \quad 1.50 \pm 0.10 \quad 1.75 \pm 0.10 \quad 5.50 \pm 0.05 \quad 12.00 \pm 0.30 \quad 4.00 \pm 0.12 \quad 2.00 \pm 0.10 \quad 8.00 \pm 0.10 \quad 1.50 \pm 0.10 \quad$ 0.25 178mm (7") 12mm

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	LEADFREE SUFFIX	TAPE SUFFIX	QTY/REEL	REEL SIZE	TUBE QTY	
DALC112S1	-LF	-T7	1,000	7"	98	
DALC112S1	-LF	-T13	2,500	13"	98	
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.

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> Technical Support: <u>support@protekdevices.com</u>

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

COPYRIGHT © ProTek Devices 2002 - This literature is subject to all applicable copyright laws and is not for resale in any manner.

SPECIFICATIONS: ProTek reserves the right to change the electrical and or mechanical characteristics described herein without notice.

DESIGN CHANGES: ProTek reserves the right to discontinue product lines without notice and that the final judgement concerning selection and specifications is the buyer's and that in furnishing engineering and technical assistance. ProTek assumes no responsibility with respect to the selection or specifications of such products. ProTek makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ProTek assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability without limitation special, consequential or incidental damages.

LIFE SUPPORT POLICY: ProTek Devices products are not authorized for use in life support systems without written consent from the factory.