

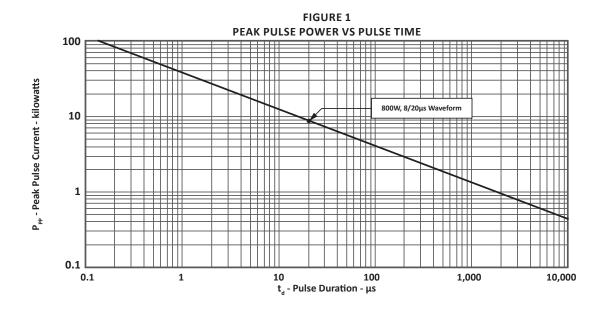
TYPICAL DEVICE CHARACTERISTICS

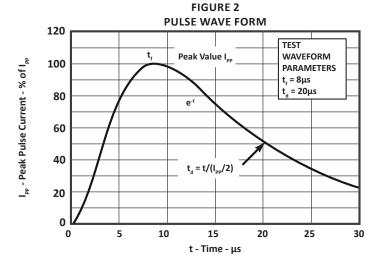
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified					
PARAMETER SYMBOL VALUE U					
Peak Pulse Power (tp = 8/20μs) - See Figure 1	P _{PP}	800	Watts		
Operating Temperature	T _L	-55 to 150	°C		
Storage Temperature	T _{stg}	-55 to 150	°C		

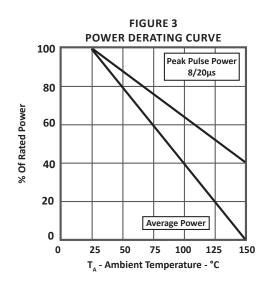
ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified							
PART NUMBER (Note 1)	RATED STAND-OFF VOLTAGE V _{wm} VOLTS	MINIMUM BREAKDOWN VOLTAGE @1mA V _(BR) VOLTS	MAXIMUM CLAMPING VOLTAGE (Fig. 2) @ IP = 1A V _c VOLTS	MAXIMUM CLAMPING VOLTAGE (Fig. 2) @ 8/20μs V _c @ Ι _{pp}	MAXIMUM LEAKAGE CURRENT @V _{wM} Ι _D μΑ	MAXIMUM CAPACITANCE @0V, 1MHz C pF	TEMPERATURE COEFFICIENT OF V _(BR) q V _(BR) mV/°C
LCA05C	5.0	6.0	9.8	24.0V @ 45.0A	100	15	3
LCA08C	8.0	8.5	12.3	25.5V @ 40.0A	10	15	9
LCA12C	12.0	13.3	19.0	32.0V @ 34.0A	4	15	16
LCA15C	15.0	16.7	25.5	38.0V @ 27.0A	4	15	17
LCA24C	24.0	26.7	40.0	48.0V @ 22.0A	4	15	26
NOTES				_			

1. Tested on pin pairs 1 and 16, 2 and 15, 3 and 14, 4 and 13, 5 and 12, 6 and 11, 7 and 10, 8 and 9.

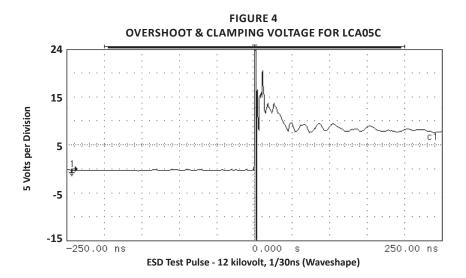
TYPICAL DEVICE CHARACTERISTICS

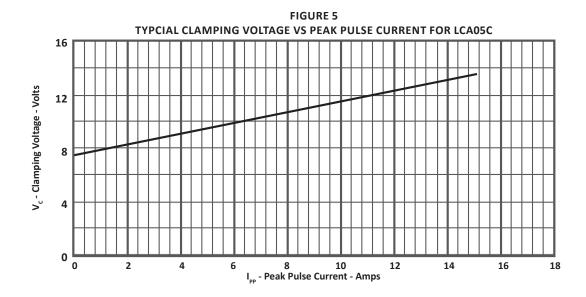






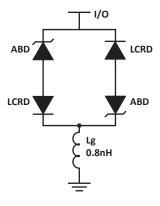
TYPICAL DEVICE CHARACTERISTICS





SPICE MODEL

FIGURE 1 SPICE MODEL



ABD - Avalanche Breakdown Diode (TVS) LCRD: Low Capacitance Rectifier Diode Lg - Lead Inductance

TABLE 1 - SPICE PARAMETERS					
PARAMETER	UNIT ABD(TVS)		LCRD		
BV	V	See Table 2	200		
IBV	μΑ	1	0.01		
C _{jo}	pF	See Table 2	5		
I _s	А	See Table 2	1E-13		
Vj	V	0.6	0.6		
М	-	0.33	0.33		
N	-	1	1		
R _s	Ohms	See Table 2	0.31		
TT	S	1E-8	1E-9		
EG	eV	1.11	1.11		

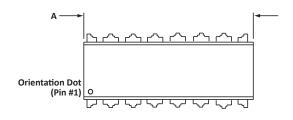
TABLE 2 - ABD SPECIFIC SPICE PARAMETERS						
PART NUMBER	B _v (VOLTS)	C _{io} (pF)	I _s (AMPS)	Rs(OHMS)		
LCA05C	6.0	893	1E-11	0.09		
LCA08C	8.5	481	1E-13	0.18		
LCA12C	13.3	319	1E-13	0.22		
LCA15C	16.7	238	1E-13	0.31		
LCA24C	26.7	210	1E-13	0.93		

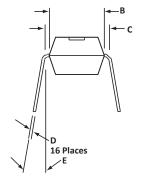
16 PIN DIP PACKAGE INFORMATION

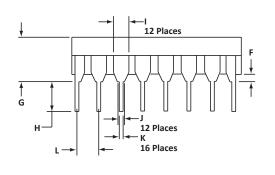
OUTLINE DIMENSIONS					
DIM	MILLIMETERS		INCHES		
	MIN	MAX	MIN	MAX	
Α	18.80	19.55	0.740	0.770	
В	6.35	6.85	0.250	0.270	
С	7.50	7.74	0.295	0.305	
D	0.21	0.38	0.008	0.015	
E	0°	10°	0°	10°	
F	0.51	1.01	0.020	0.040	
G	3.69	4.44	0.145	0.175	
Н	2.80	3.30	0.110	0.130	
I	1.02	1.77	0.040	0.070	
J	0.76	1.52	0.030	0.060	
K	0.39	0.53	0.015	0.021	
L	2.54	2.54	0.100	0.100	



- 1. Dimensions are exclusive of mold flash and metal burrs.
- 2. Dimension "L" is between centers.







ORDERING INFORMATION					
BASE PART NUMBER (xx = Voltage)	LEADFREE SUFFIX	TAPE SUFFIX	QTY/REEL	REEL SIZE	TUBE QTY
LCAxxC	-LF	n/a	n/a	n/a	25

NOTES

- 1. Marking on Part logo, part number, date code and pin one defined by dot on top of package.
- 2. This series is only available in a lead-free configuration.

Package outline per document number 06003.R3 10/11.



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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