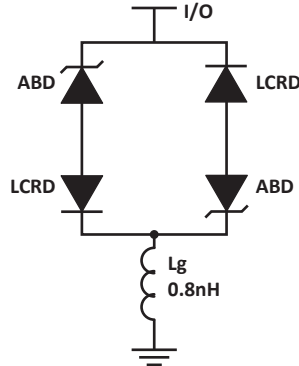


**SPICE MODEL & PARAMETERS**

**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	μA	1	0.01
C <sub>jo</sub>	pF	See Table 2	5
I <sub>s</sub>	A	See Table 2	1E-13
Vj	V	0.6	0.6
M	-	0.33	0.33
N	-	1	1
R <sub>s</sub>	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 <sub>v</sub> (VOLTS)	C <sub>jo</sub> (pF)	I <sub>s</sub> (AMPS)	Rs(OHMS)
LCD05C	6.0	880	1E-11	0.09
LCD08C	8.5	481	1E-13	0.18
LCD12C	13.3	319	1E-13	0.22
LCD15C	16.7	238	1E-13	0.31
LCD24C	26.7	210	1E-13	0.93

## COMPANY INFORMATION

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### 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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