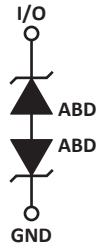


**SPICE MODEL & PARAMETERS**

**FIGURE 1**  
**SPICE MODEL FOR**



ABD - Avalanche Breakdown Diode (TVS)

**TABLE 1 - SPICE PARAMETERS**

PARAMETER	UNIT	ABD(TVS)
BV	V	See Table 2
IBV	μA	1
C <sub>jo</sub>	pF	See Table 2
I <sub>s</sub>	A	See Table 2
Vj	V	0.6
M	-	0.33
N	-	1
R <sub>s</sub>	-	See Table 2
TT	s	1E-8
EG	eV	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)
P0402FC3.3C	4.0	150	1E-11	0.20
P0402FC05C	6.0	100	1E-11	0.16
P0402FC08C	8.5	75	1E-13	0.33
P0402FC12C	13.3	50	1E-13	0.51
P0402FC15C	16.7	40	1E-13	0.53
P0402FC24C	26.7	20	1E-13	0.63
P0402FC36C	40.2	15	1E-13	0.73

## 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.

### 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:

Sales: [sales@protekdevices.com](mailto:sales@protekdevices.com)  
Customer Service: [service@protekdevices.com](mailto:service@protekdevices.com)  
Technical Support: [support@protekdevices.com](mailto: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](http://www.protekdevices.com)

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