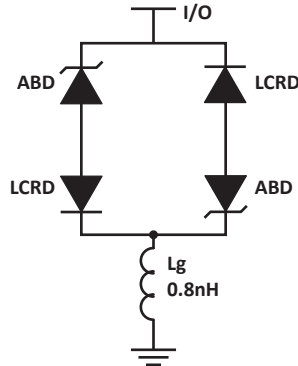


SPICE MODEL & PARAMETERS

**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 _{jo} | pF | See Table 2 | 5 |
| I _s | A | See Table 2 | 1E-14 |
| Vj | V | 0.6 | 0.6 |
| M | - | 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 _{jo} (pF) | I _s (AMPS) | Rs(OHMS) |
| SMLC6.5-2 | 7.2 | 2600 | 1E-11 | 0.075 |
| SMLC12C-2 | 13.3 | 1150 | 1E-13 | 0.080 |

COMPANY INFORMATION

COMPANY PROFILE

ProTek Devices, based in Tempe, Arizona USA, is a manufacturer of Transient Voltage Suppression (TVS) products designed specifically for the protection of electronic systems from the effects of lightning, Electrostatic Discharge (ESD), Nuclear Electromagnetic Pulse (NEMP), inductive switching and EMI/RFI. With over 25 years of engineering and manufacturing experience, ProTek designs TVS devices that provide application specific protection solutions for all electronic equipment/systems.

ProTek Devices Analog Products Division, also manufactures analog interface, control, RF and power management products.

CONTACT US

Corporate Headquarters

2929 South Fair Lane
Tempe, Arizona 85282
USA

By Telephone

General: 602-431-8101
Sales: 602-414-5109
Customer Service: 602-414-5114

By Fax

General: 602-431-2288

By E-mail:

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

Web

www.protekdevices.com
www.protekanalog.com

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