

DESCRIPTIONS

The SDAXXT1 is a Bi-directional transient voltage suppressing diodes to protect one power line, or one control line, or one low speed data line from overvoltage hazard of Electrostatic Discharge(ESD), Electrical Fast Transients(EFT) and Lightning.

The PESD5B5C's typical applications are Computer Interfaces Protection, Microprocessors Protection, Control Signal Lines Protection etc.



FEATURES

- * Bi-directional TVS;
- * Provides ESD protection to IEC61000-4-2 level 4
 - $\pm 15\text{kV}$ air discharge;
 - $\pm 15\text{kV}$ contact discharge;
- * Ultra-small body with SOD-523 package;
- * Fast response speed $< 1\text{ ns}$;
- * Low clamping voltage;
- * Low operating voltage;
- * RoHS compliant.

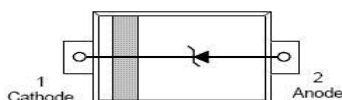
APPLICATIONS

- * Computer Interfaces Protection;
- * Microprocessors Protection;
- * Control Signal Lines Protection;
- * Serial and Parallel Ports Protection;
- * power lines on PCB Protection
- * Latchup Protection;

ORDERING INFORMATION

Part No.	Package	Marking	Material	Packing
SDAXXT1	SOD-523	XX	Halogen free	Tape&Reel

PIN CONFIGURATION



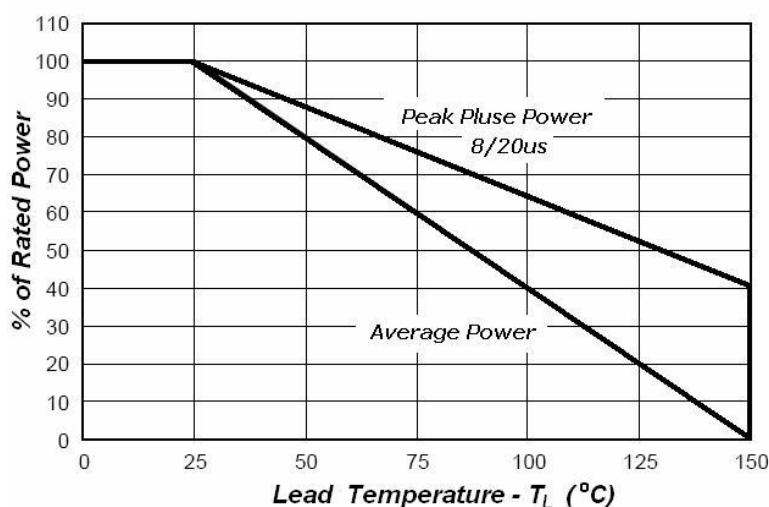
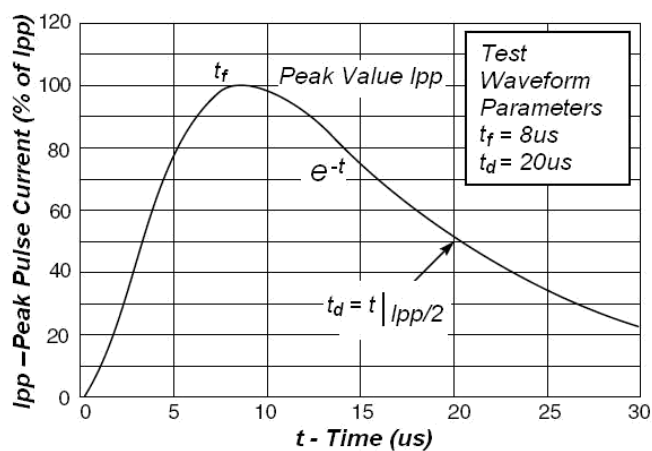
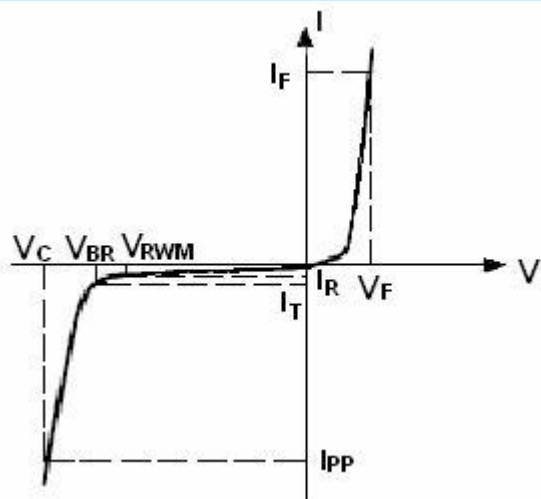
ABSOLUTE MAXIMUM RATINGS

Characteristics	Symbol	Value	Unit
Power Dissipation@ Tamb=25°C	P _D	200	mW
Maximum Operation Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	-55~+150	°C

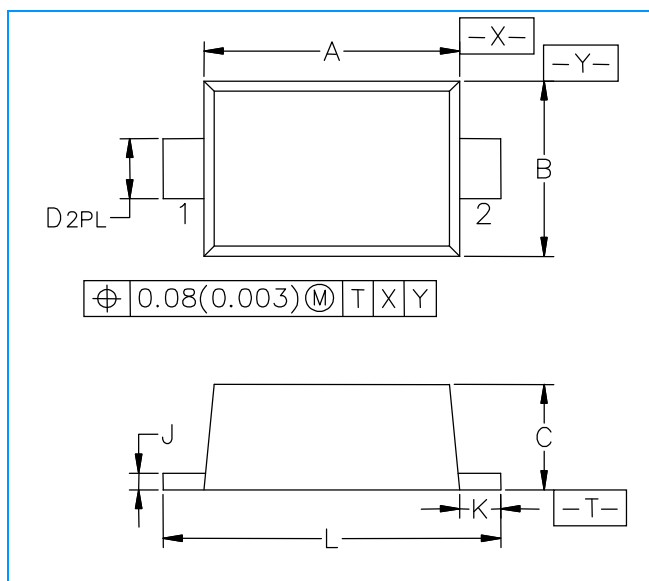
ELECTRICAL CHARACTERISTICS SPEC (For packaged diodes, $T_a=25^\circ\text{C}$)

型 号	VRWM (V)	IR(μA)@ VRWM	VBR(V) @IT	IT	VC(V)@ Max IPP	IPP(A)*	PPK (W)	C (PF)
	Max.	Max.	Typ.	mA	Max.	Max.	Max.	Typ.
SDA2.5T1	2.5	6.0	4.0	1.0	10.9	11.0	120	145
SDA3.3T1	3.3	1.0	5.6	1.0	14.1	11.2	158	105
SDA05T1	5.0	1.0	6.2	1.0	18.6	9.4	174	80
SDA06T1	6.0	1.0	6.8	1.0	20.5	8.8	181	70
SDA07T1	7.0	1.0	7.5	1.0	22.7	8.8	200	65
SDA12T1	12.0	1.0	14.0	1.0	29	5.0	95	55

TYPICAL ELECTRICAL CHARACTERISTICS CURVE

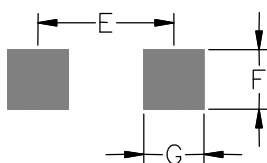


SOD-523 Package Outline & Dimensions



Symbol	Millimeters			Inches		
	Min.	Nom.	Max.	Min.	Nom.	Max.
A	1.10	1.20	1.30	0.043	0.047	0.051
B	0.70	0.80	0.90	0.028	0.032	0.035
C	0.50	0.60	0.70	0.020	0.024	0.028
D	0.25	0.30	0.35	0.010	0.012	0.014
J	0.07	0.14	0.20	0.0028	0.0055	0.0079
K	0.15	0.20	0.25	0.006	0.008	0.010
S	1.50	1.60	1.70	0.059	0.063	0.067

Soldering Footprint



Symbol	Millimeters	Inches
E	1.40	0.0547
F	0.40	0.0157
G	0.40	0.0157