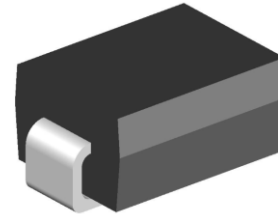
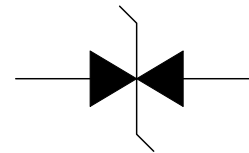


SPD82062B

1-Line, 600W, TVS

<http://www.sh-willsemi.com>
Descriptions

The SPD82062B is a bi-directional TVS (Transient Surge Suppressor) which can protect sensitive electronics against voltage transients induced by inductive load switching and lightning. It is specifically designed to protect I/O interfaces, VBUS and other integrated circuits.


SMB

Schematic Diagram
Features

- For surface mount application
- Excellent clamping capability
- Low profile package
- Fast response time: Typically less than 1.0ps from 0V to 7.22V
- Low inductance
- GPP

Mechanical Data

- Case: Molded plastic
- Mounting position: Any
- Weight: 0.093 grams



YY = Year Code
 WW = Week Code
 AK = Device Code

Marking (Top View)
Order information

Device	Dim (mm)	Shipping
SPD82062B-2/TR	5.3*3.5*2.3	3000/Tape&Reel

Absolute maximum ratings

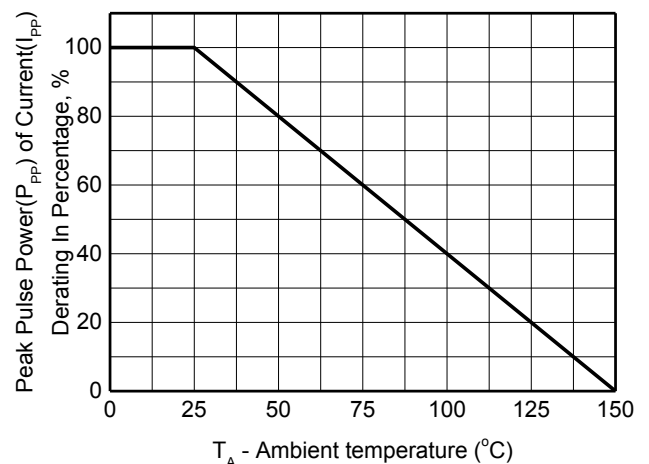
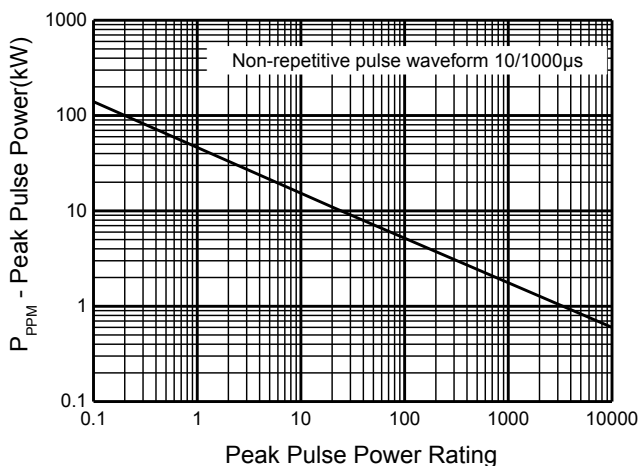
Parameter	Symbol	Rating	Units
Peak Pulse Power on 10/1000µs waveform	P _{PPM}	600	W
Peak Pulse Current of on 10/1000µs waveform	I _{PPM}	53.6	A
Junction Temperature	T _J	-55~150	°C
Operating Temperature	TOP	-40~125	°C
Storage Temperature Range	TSTG	-55 to +150	oC

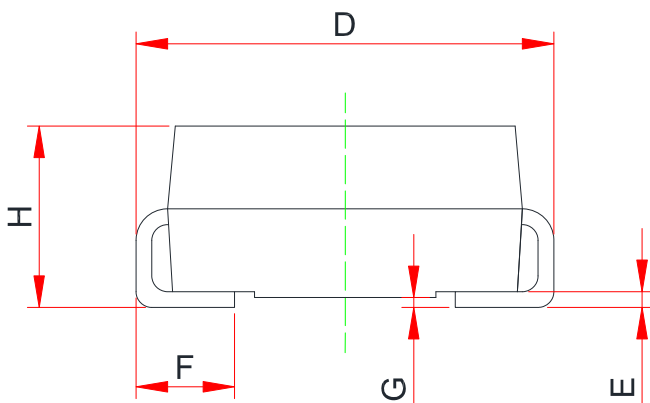
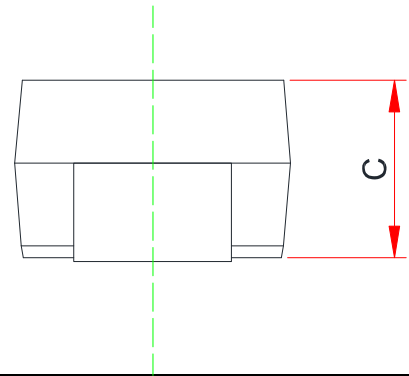
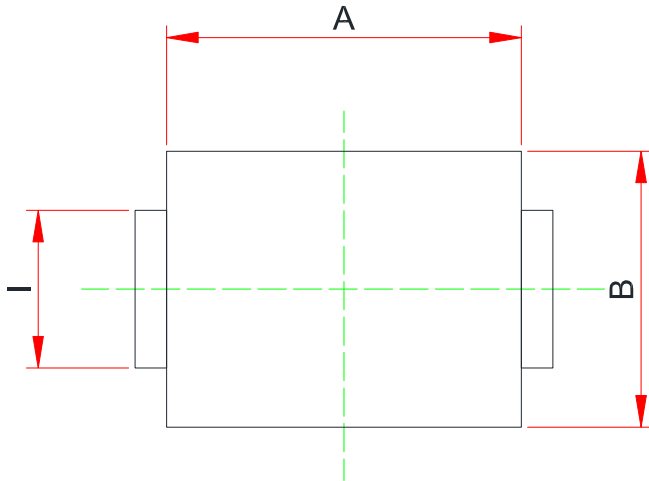
Notes:

1. Mounted on 5.0mm² (0.03mm thick) Copper Pads to each terminal.

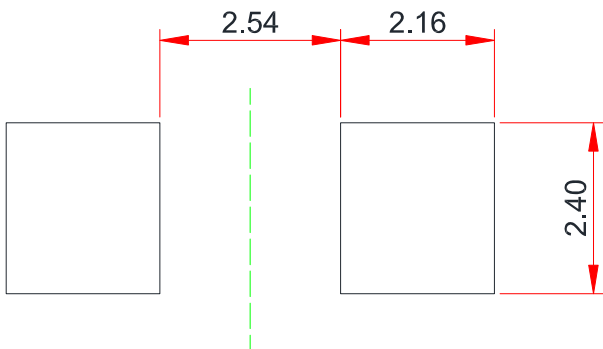
Electrical characteristics (T_A=25°C, unless otherwise noted)

Part Number	Reverse Stand-off Voltage V _{RWM} (V)	Breakdown Voltage @I _T V _{BR} (V)		Test Current I _T (mA)	Maximum Clamping Voltage @I _{PP} V _C (V)	Maximum Peak Pulse Current I _{PP} (A)	Reverse Leakage @V _{RWM} I _R (µA)		Junction capacitance F = 1MHz, VR=0V (pF)	
	Max.	Min.	Max.				Typ.	Max.	Typ.	Max.
SPD82062B	6.5	7.22	8.30	10	11.2	53.6	500		2000	3000

Typical characteristics (T_A=25°C, unless otherwise noted)


Package outline dimensions (Unit: mm)
SMB


Symbol	Dimensions in millimeter		
	Min.	Typ.	Max.
A	4.06		4.57
B	3.30		3.94
C	1.95		2.62
D	5.08		5.59
E	0.13		0.31
F	0.76		1.52
G	0.20 Max.		
H	2.10	2.30	2.50
I	1.78	2.00	2.20

Recommend land pattern (Unit: mm)

Notes:

This recommended land pattern is for reference purposes only. Please consult your manufacturing group to ensure your PCB design guidelines are met.