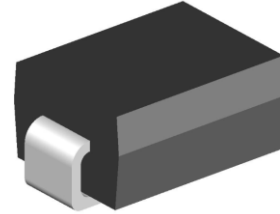
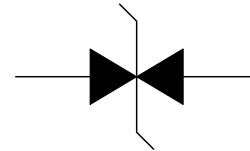


SPD82202B

1-Line, 600W, TVS

[Http://www.sh-willsemi.com](http://www.sh-willsemi.com)
Descriptions

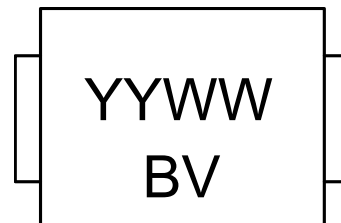
SPD82202B protect sensitive electronics against voltage transients induced by inductive load switching and lightning. Ideal for the protection of I/O interfaces, V_{CC} bus and other integrated circuits.


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 22.2V
- Low inductance
- GPP

Mechanical Data

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



YY = Year Code
 WW = Week Code
 BV = Device Code

Marking (Top View)
Order information

Device	Dim (mm)	Shipping
SPD82202B-2/TR	5.3*3.5*2.3	3000/Tape&Reel

Absolute maximum ratings

Rating	Symbol	Value	Units
Peak Pulse Power on 10/1000μs waveform	P _{PPM}	600	W
Peak Pulse Current of on 10/1000μs waveform	I _{PPM}	18.5	A
Junction Temperature	T _J	-55~150	°C
Operating Temperature	T _{OP}	-40~125	°C
Storage Temperature Range	T _{STG}	-55~150	°C

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 _R (V)	Breakdown Voltage V _{BR} @ I _T (V)		Test Current I _T (mA)	Maximum Clamping Voltage V _C @I _{PP} (V)	Maximum Peak Pulse Current I _{PP} (A)	Maximum Reverse Leakage I _R @ V _R (μA)
		MIN	MAX				
SPD82202B	20	22.2	25.5	1	32.4	18.5	1

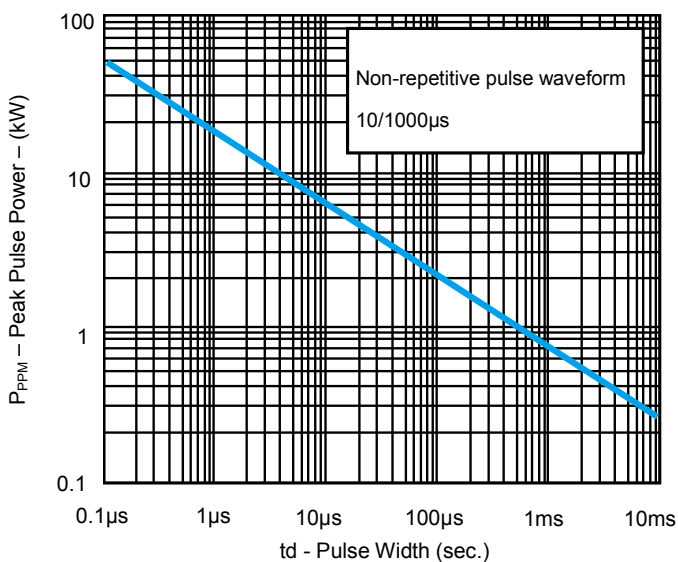
Typical characteristics (T_A=25°C, unless otherwise noted)


Fig. 1 Peak Pulse Power

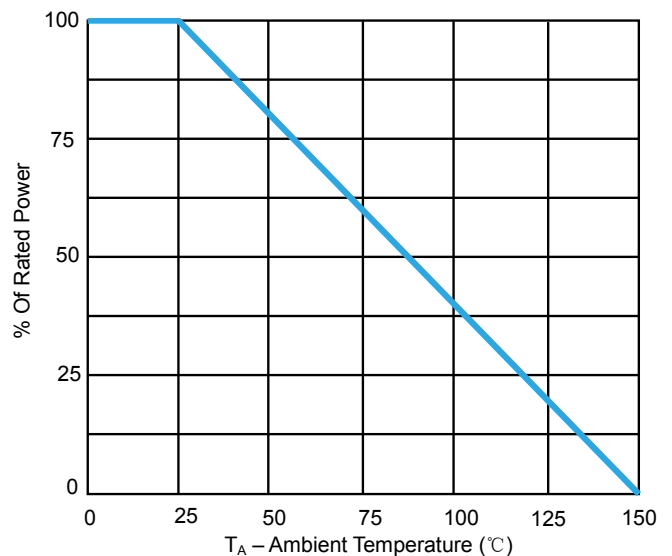
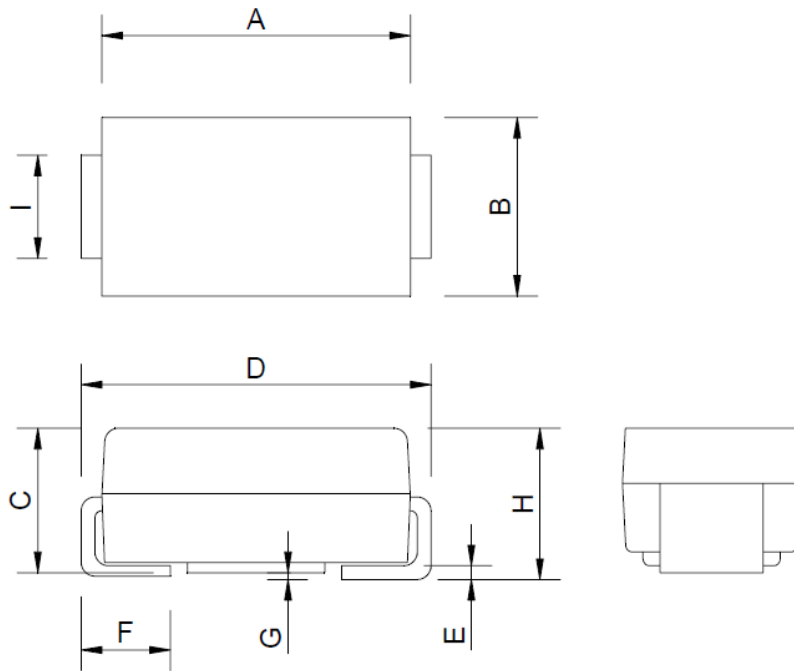
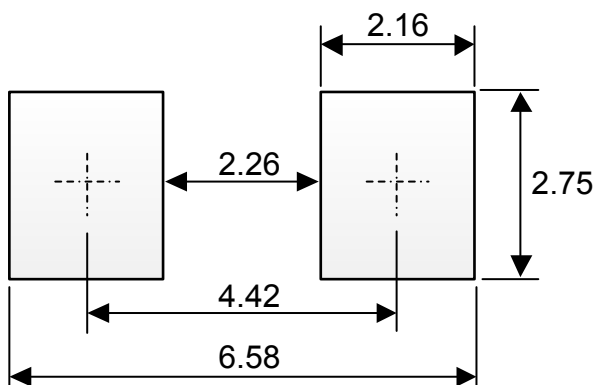


Fig. 2 Pulse Derating Curve

Package outline dimensions (Unit:mm)
SMB


Symbol	Dimensions in millimeter		
	Min.	Typ.	Max.
A	4.06	--	4.58
B	3.30	--	3.95
C	2.00	--	2.30
D	5.05	--	5.60
E	0.15	--	0.30
F	0.75	--	1.50
G	0.00	--	0.20
H	2.00	--	2.50
I	1.95	--	2.25

Recommend land pattern (Unit: mm)


*Note: This land pattern is for your reference only.
Actual pad layouts may vary depending on application.*