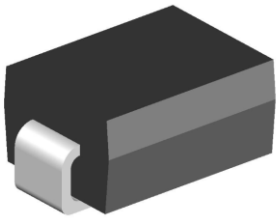
SPD82152BH

1-Line, 1000W, TVS

Http//:www.sh-willsemi.com

Descriptions

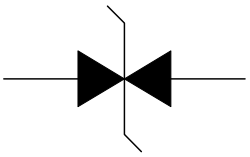
SPD82152BH protect sensitive electronics against voltage transients induced by inductive load switching and lightning. Ideal for the protection of I/O interfaces, V_{CC} bus and other integrated circuits.



SMB

Features

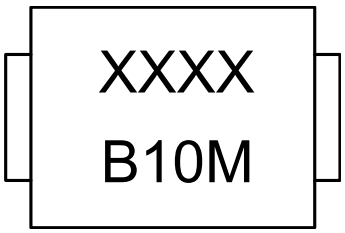
- For surface mount application
- Excellent clamping capability
- Low profile package
- Fast response time: Typically less than 1.0ps from 0V to 16.7V
- Low inductance
- GPP



Schematic Diagram

Mechanical Data

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



XXXX = Date code
B10M = Device code
Marking (Top View)

Order information

Device	Package	Shipping
SPD82152BH-2/TR	SMB	3000/Tape&Reel

Absolute maximum ratings

Rating	Symbol	Value	Units
Peak Pulse Power on 10/1000μs waveform	P_{PPM}	1000	W
Junction Temperature	T_J	-55~150	℃
Operating Temperature	T_{OP}	-40~125	℃
Storage Temperature Range	T_{STG}	-55~150	℃

Notes :

1. Mounted on 5.0mm^2 (0.03mm thick) Copper Pads to each terminal

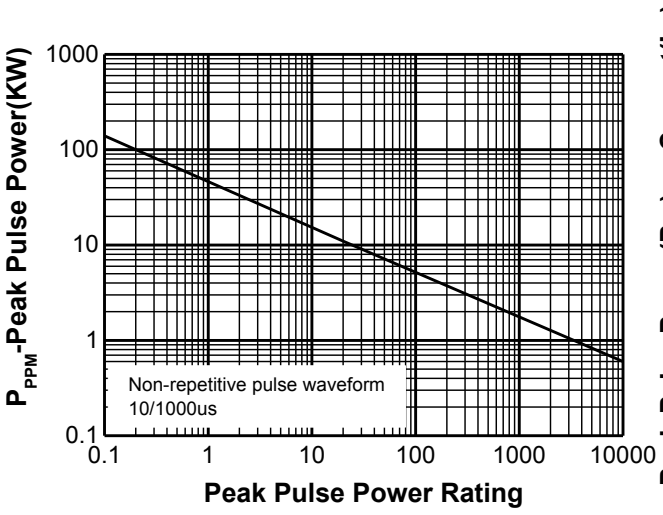
Electrical characteristics (T_A=25 °C, unless otherwise noted)

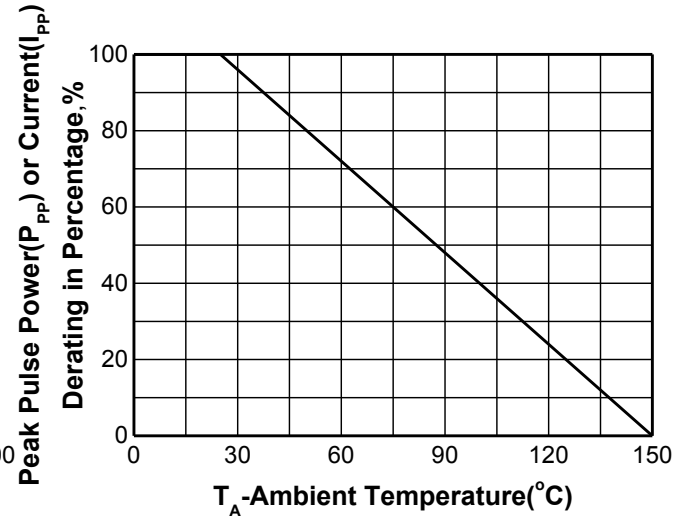
Part Number	Reverse Stand off Voltage V_R (V)	Breakdown Voltage V_{BR}@ I_T (V)		Test Current I_T (mA)	Maximum Clamping Voltage V_C @I_{PP}(V) 1)	Maximum Peak Pulse Current I_{PP} (A) 1)	Maximum Reverse Leakage I_R @ V_R(μA)
		MIN	MAX				
SPD82152BH	15	16.7	18.5	1	24.4	41	1

Notes:

1) 10/1000μs waveform

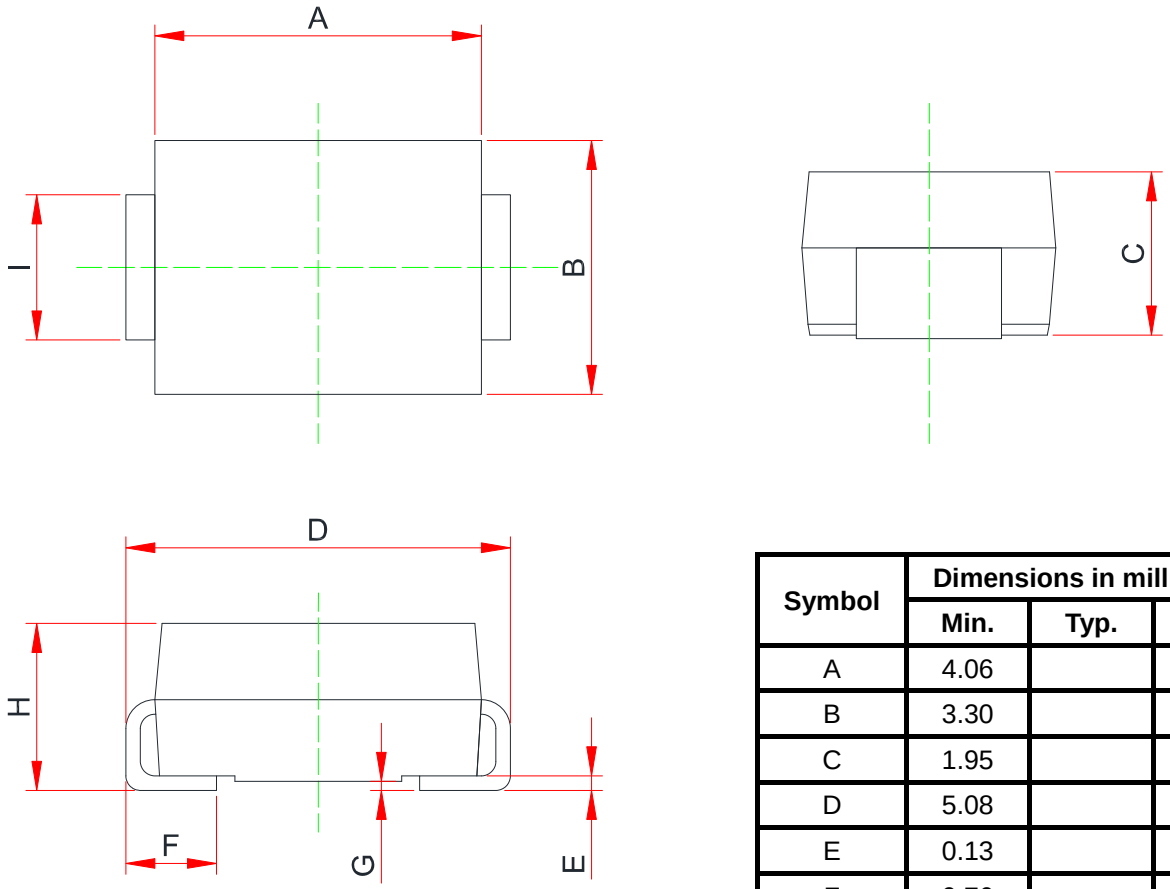
Typical characteristics (T_A=25°C, unless otherwise noted)





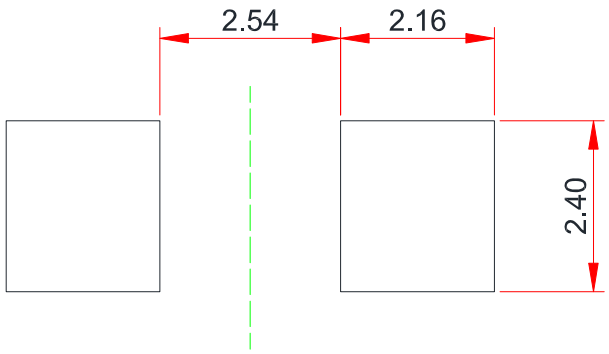
Package outline dimensions (Unit:mm)

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.