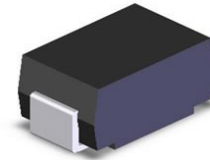


SPD81152A

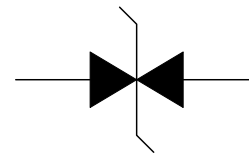
1-Line, 400W, TVS

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

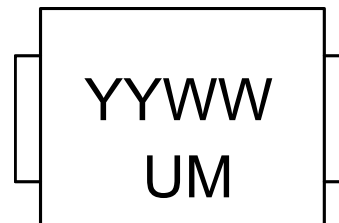
SPD81152A protect sensitive electronics against voltage transients induced by inductive load switching and lightning. Ideal for the protection of I/O interfaces, V_{CC} bus and other integrated circuits.


SMA (DO-214AC)
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: 0.063 grams



YY = Year Code
 WW = Week Code
 UM = Device Code

Marking (Top View)
Order information

Device	Dim (mm)	Shipping
SPD81152A-2/TR	5.1*2.6*2.1	5000/Tape&Reel

Absolute maximum ratings

Rating	Symbol	Value	Units
Peak Pulse Power on 10/1000µs waveform	P _{PPM}	400	W
Peak Pulse Current of on 10/1000µs waveform	I _{PPM}	16.4	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 (Bi)	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				
SPD81152A	15.0	16.7	19.2	1.0	24.4	16.4	1.0

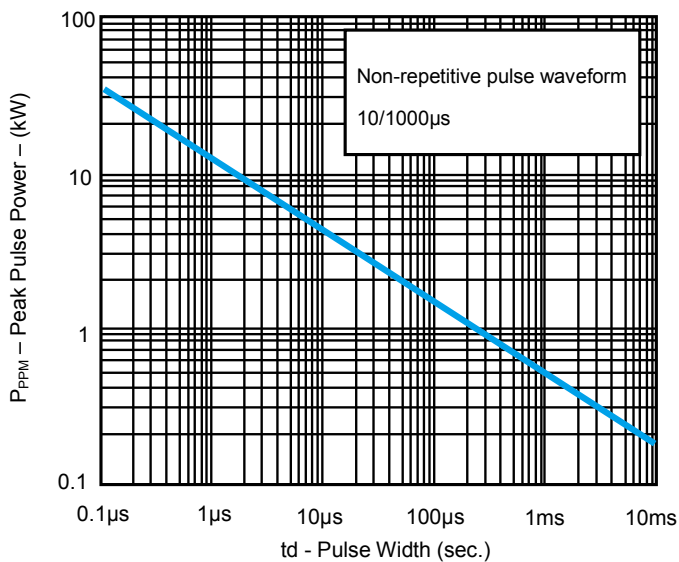
Typical characteristics (T_A=25°C, unless otherwise noted)


Fig. 1 Peak Pulse Power

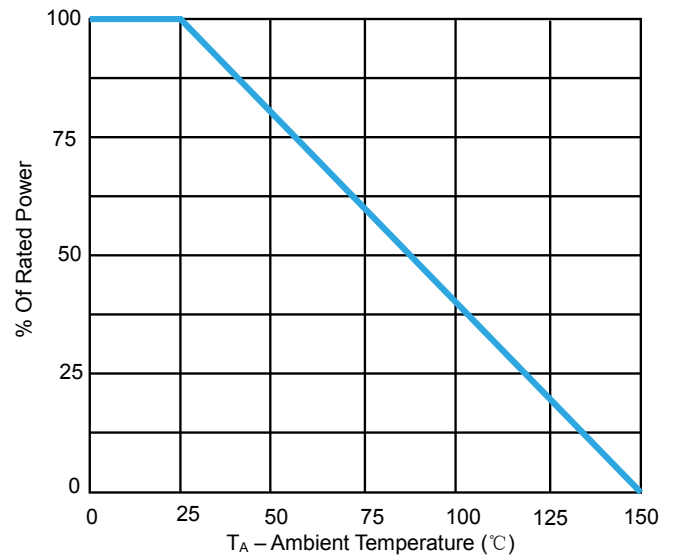
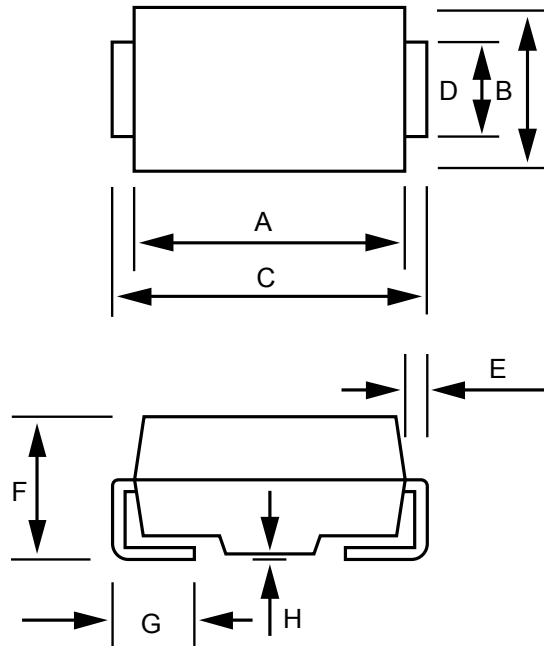
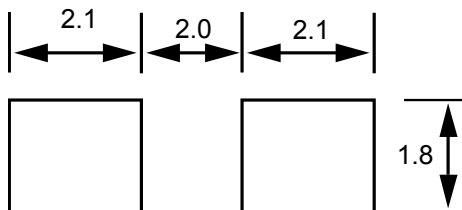


Fig. 2 Pulse Derating Curve

Package outline dimensions (Unit:mm)
SMA


Symbol	Dimensions in millimeter	
	Min.	Max.
A	3.990	4.500
B	2.540	2.790
C	4.930	5.280
D	1.250	1.650
E	0.152	0.305
F	1.980	2.290
G	0.780	1.520
H	-	0.203

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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [ESD Suppressors / TVS Diodes](#) category:

Click to view products by [Will Semiconductor](#) manufacturer:

Other Similar products are found below :

[NTE4902](#) [P4SMAJ15A](#) [P4SMAJ26A](#) [SMAJ400CA-TP](#) [TGL34-47CA](#) [ESDAULC45-1BF4](#) [SM1605E3/TR13](#) [SMF20A-TP](#) [P4SMAJ12A](#)
[CPDUR24V-HF](#) [CPDQC5V0USP-HF](#) [CPDQC5V0-HF](#) [MPLAD30KP280A](#) [MPLAD30KP45CAE3](#) [MMBZ27VCLQ-7-F](#) [MMAD1108/TR13](#)
[MPLAD30KP24A](#) [MPLAD30KP30CAE3](#) [ACPDQC5V0R-HF](#) [DFLT170A-7](#) [NTE4900](#) [NTE4926](#) [NTE4938](#) [JANTX1N6144A](#)
[JANTX1N6057A](#) [SMF22A-TP](#) [SMF12A-TP](#) [SLVU2.8-TP](#) [SMLJ6.5CA-TP](#) [SMAJ6.5CA-TP](#) [MMAD1108E3/TR13](#) [JANTX1N6160A](#)
[D5V0M1U2LP3-7](#) [SMAJ400A-TP](#) [AOZ8811DT-03](#) [AOZ8831DI-05](#) [AOZ8831DT-03](#) [SMAJ188CA](#) [3SMC33CA BK](#) [CPDQC3V3C-HF](#)
[CPDQC12VE-HF](#) [GRPADATAJANTX1N6041A](#) [MPLAD30KP170CA](#) [82357120100](#) [5.0SMLJ15CA-TP](#) [5KP18A-TP](#) [P6KE8.2A-TP](#)
[MPLAD30KP43CAE3](#) [SMAJ43A-TP](#) [D26V0H1U2LP16-7](#)