

SPD83241C

1-Line, 1500W, TVS

Descriptions

SPD83241C 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.

Features

- For surface mount application
- Excellent clamping capability
- Low profile package
- Fast response time: Typically less than
 1.0ps from 0V to 24V
- Low inductance
- GPP

Mechanical Data

Case: Molded plasticMounting position: AnyWeight: 0.21 grams

Http//:www.sh-willsemi.com



SMC



Schematic Diagram



XXXX = Date code

GEZ = Device code

Marking (Top View)

Order information

Device	Dim (mm)	Shipping
SPD83241C-2/TR	7.8*5.8*2.3	3000/Tape&Reel



Absolute maximum ratings

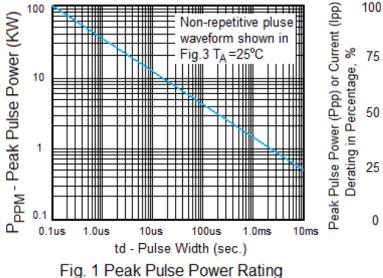
Rating	Symbol	Value	Units
Peak Pulse Power on 10/1000µs waveform	P _{PPM}	1500	W
Peak Pulse Current of on 10/1000µs waveform	I _{PPM}	38.6	Α
Peak Forward Surge Current , 8.3ms Single Half Sine-wave Superimposed on Rated Load,(JEDEC Method)	I _{FSM}	200	А
Junction Temperature	TJ	-55~150	$^{\circ}$
Operating Temperature	T _{OP}	-40~125	$^{\circ}$
Storage Temperature Range	T _{STG}	-55~150	$^{\circ}$

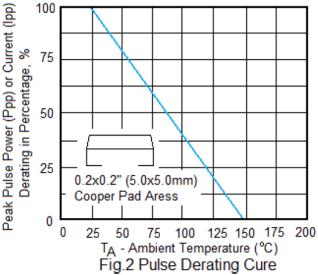
Notes: Mounted on 5.0mm² (0.03mm thick) Copper Pads to each temina

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

Part Number	Reverse Stand off Voltage V _R (V)	V_{BR}	n Voltage @ I _T /) MAX	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 (μΑ)
SPD83241C	24	26.7	30.7	1	38.9	38.6	1

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

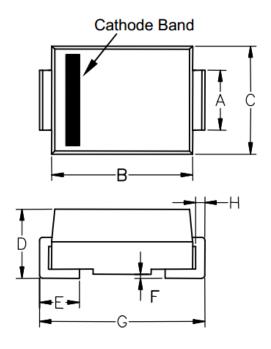






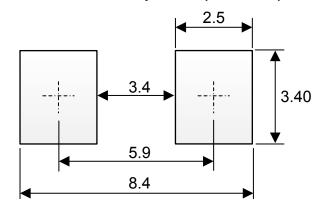
Package outline dimensions (Unit:mm)

SMC



Symbol	Dimensions in millimeter				
Symbol	Min.	Тур.	Max.		
Α	2.86		3.160		
В	6.520		7.020		
С	5.520		6.150		
D	1.980		2.590		
E	0.750		1.510		
F	-		0.203		
G	7.640	-	8.020		
Н	0.152		0.305		

Recommend land pattern (Unit: mm)



Note: This land pattern is for your reference only.

Actual pad layouts may vary depending on application.