

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

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SMC



SPD83241C

Schematic Diagram

Order information

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

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	А
Peak Forward Surge Current , 8.3ms Single Half Sine-wave Superimposed on Rated Load,(JEDEC Method)	I _{FSM}	200	А
Operating Junction Temperature Range		-55 to +150	$^{\circ}$
Storage Temperature Range	T _{STG}	-55 to +150	$^{\circ}$

Notes:

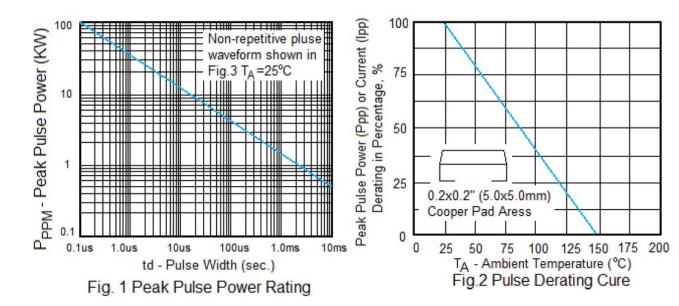
1. Mounted on 5.0mm² (0.03mm thick) Copper Pads to each teminal

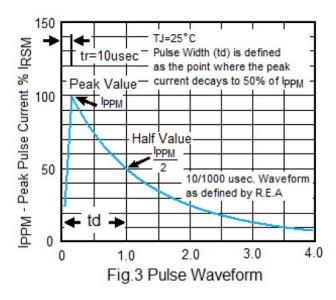


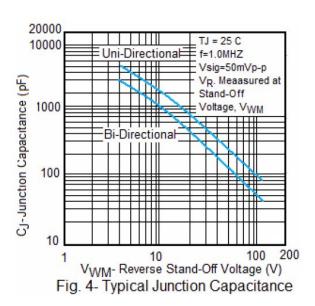
Absolute maximum ratings

Part Number	Reverse Stand off Voltage V _R (V)	V _{BR}	n Voltage @ Ιτ /) MAX	Test Current I _T (mA)	Maximum Clamping Voltage Vc @IPP (V)	Maximum Peak Pulse Current IPP (A)	Maximum Reverse Leakage I _R @ V _R (µA)
SPD83241C	24	26.7	30.7	1	38.9	38.6	5

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



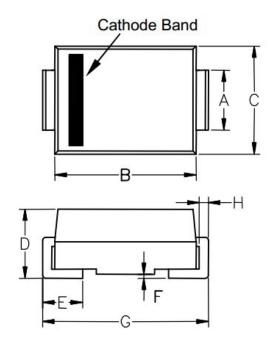






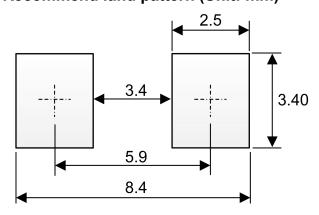
Package outline dimensions (Unit:mm)

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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.