

Features

- Solid-state Silicon technology
- · Low Capacitance
- · Low Clamping Voltage
- · Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

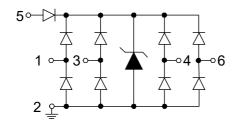
Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

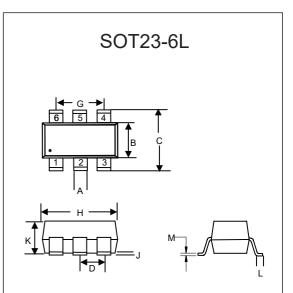
MCC Part Number	Device Marking
SRV05-4D	1208 5U

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV		
Peak Pulse Current(8/20μs)	I _{PP}	6A		
Peak Pulse Power (8/20µs)	P _{PK}	72W		

Internal Structure



Snap Back ESD Protection Device



	DIMENSIONS					
DIM	INC	INCHES		М	NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOTE	
Α	0.012	0.020	0.30	0.50		
В	0.051	0.070	1.30	1.80		
С	0.087	0.126	2.20	3.20		
D	0.037		0.95		TYP.	
G	0.074		1.90		TYP.	
Н	0.106	0.122	2.70	3.10		
J	0.002	0.006	0.05	0.15		
K	0.030	0.051	0.75	1.30		
L	0.012	0.024	0.30	0.60		
М	0.003	0.008	0.08	0.22		



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

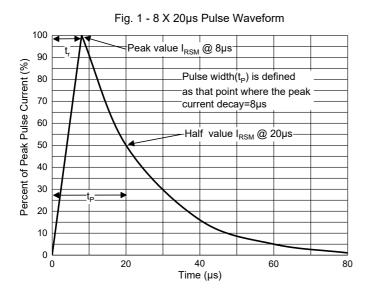
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
I/O Pins						
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	7	8	9	V
Reverse Leakage Current	I _R	V _{RWM} =5V		<1	100	nA
Forward Voltage	V _F	I _F = 10mA	0.6	0.9	1.2	V
Clamping Voltage ^(Note 1)	V _C	I _{PP} =16A, t _P =100ns		11		V
Dynamic Resistance ^(Note 1)	R_{DYN}			0.31		Ω
Clamping Voltage ^(Note 2)	V _C	V _{ESD} =8KV		12		V
Clamping Voltage ^(Note 3)	V _C	I _{PP} =1A, t _P =8/20μs		6.6	8	V
Clamping Voltage ^(Note 3)	V _C	I _{PP} =6A, t _P =8/20μs		10	12	V
Junction Capacitance	CJ	V _R =0V, f=1MHz, Any I/O pin to GND		1.2	1.6	pF
Junction Capacitance	С	V _R =0V, f=1MHz, Between any I/O pins		0.6	0.8	pF
VDD Pins	I	<u>'</u>		1	1	1
Reverse Working Voltage	V_{RWM}				6	V
Reverse Breakdown Voltage	V_{BR}	I _{BR} =1mA	7	8	9	V
Reverse Leakage Current	I _R	V _{RWM} =6V			1	μA
Forward Voltage	V _F	I _F = 10mA	0.6	0.9	1.2	V
Clamping Voltage ^(Note 1)	V _C	I _{PP} =16A, t _P =100ns		9.5		V
Dynamic Resistance ^(Note 1)	R _{DYN}	t _P =100ns		0.2		Ω
Clamping Voltage ^(Note 2)	V _C	V _{ESD} =8KV		10		V
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs		6.4	7	V
Clamping Voltage	V _C	I _{PP} =9A, t _P =8/20μs		9.5	11	V

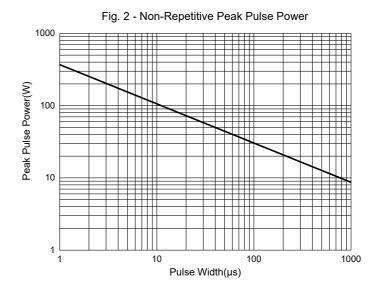
Note:

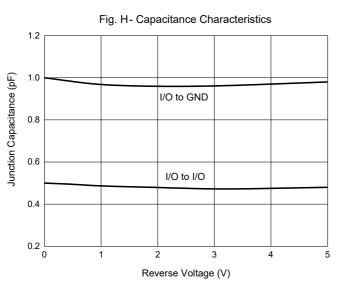
- 1. TLP Parameter: Z_0 =50 Ω , t_p =100ns, t_r =2ns, Averaging Window from 60ns to 80ns. RDYN is Calculated from 4A to 16A.
- 2. Contact Discharge Mode, According to IEC61000-4-2.
- 3. Non-repetitive Current Pulse, According to IEC61000-4-5.

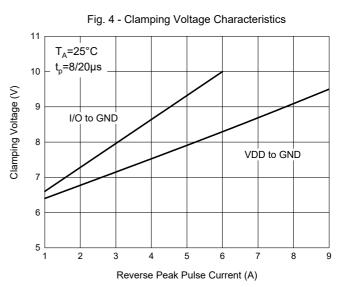


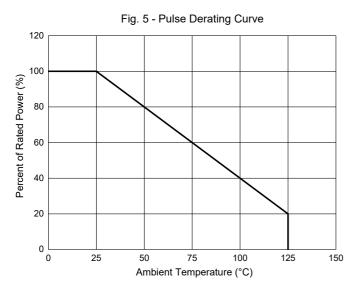
Curve Characteristics

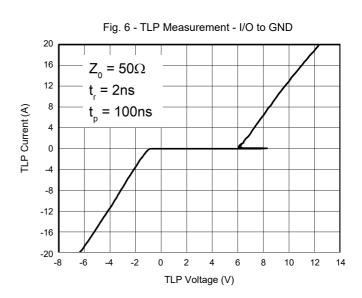








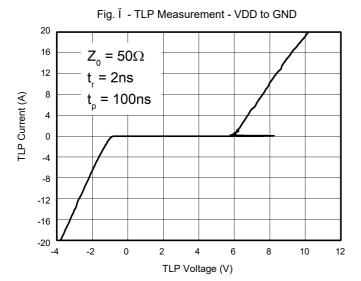




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Curve Characteristics





Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note: Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

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