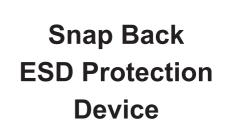


Features

- Solid-state Silicon technology
- Low Capacitance
- Low Clamping Voltage
- Halogen Free. "Green" Device (Note 1)
- 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



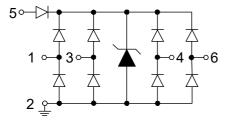
MCC Part Number	Device Marking
SRV05-4D	1208 5U

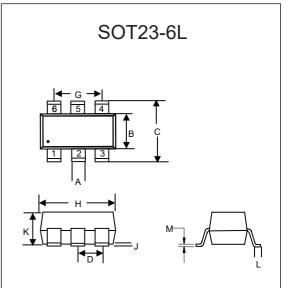
IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
Peak Pulse Current(8/20µs)	I _{PP}	6A
Peak Pulse Power (8/20µs)	P _{PK}	72W

Note :

1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure





DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
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	0.0	37	0.	95	TYP.
G	0.0)74	1.	90	TYP.
Н	0.106	0.122	2.70	3.10	
J	0.002	0.006	0.05	0.15	
Κ	0.030	0.051	0.75	1.30	
L	0.012	0.024	0.30	0.60	
Μ	0.003	0.008	0.08	0.22	



Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
I/O Pins				1		
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	CJ	V _R =0V, f=1MHz, Between any I/O pins		0.6	0.8	pF
VDD Pins						
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	Vc	I _{PP} =9A, t _P =8/20μs		9.5	11	V

Electrical Characteristics @ 25°C (Unless Otherwise Specified)

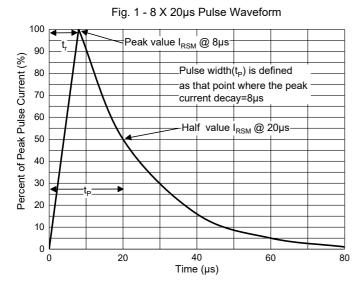
Note:

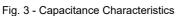
 TLP Parameter: Z₀=50Ω, t_p=100ns, t_r=2ns, Averaging Window from 60ns to 80ns. RDYN is Calculated from 4A to 16A.

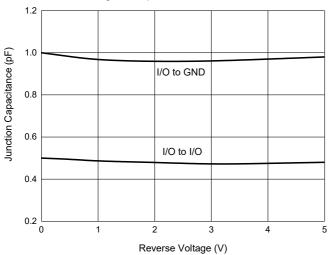
- 2. Contact Discharge Mode, According to IEC61000-4-2.
- 3. Non-repetitive Current Pulse, According to IEC61000-4-5.



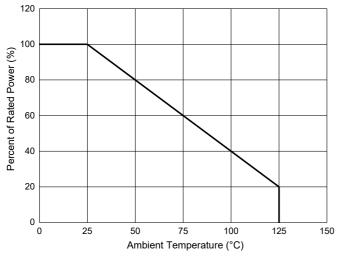
Curve Characteristics

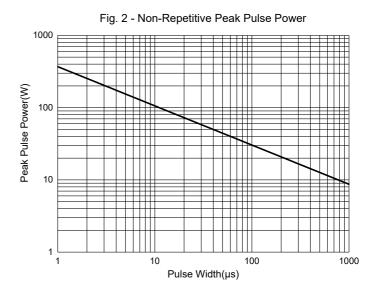




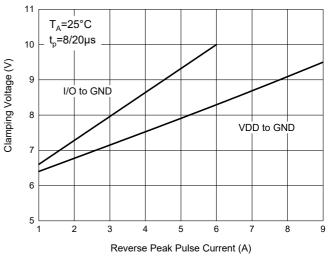




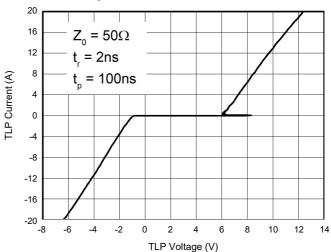






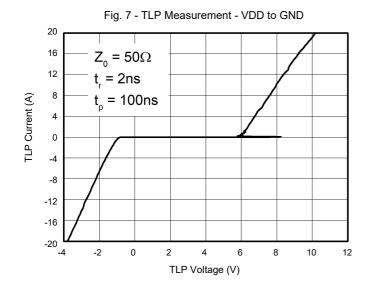








Curve Characteristics





Ordering Information

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

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