

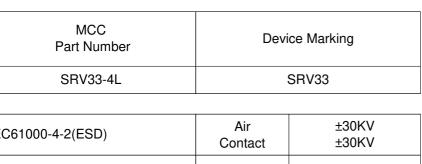
## Features

- Up to 4 I/O Lines
- Low Clamping Voltage
- Low Capacitance
- Ultra Low Leakage
- 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



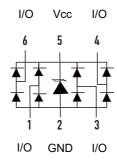


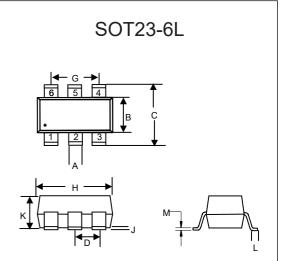
IEC61000-4-2(ESD)	Contact	±30KV	
Peak Pulse Current(8/20µs)	I <sub>PP</sub>	22A	
Peak Pulse Power (8/20µs)	P <sub>PK</sub>	300W	

Note:

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

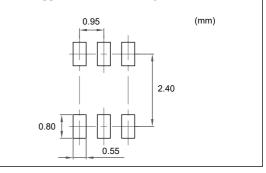
### **Internal Structure**





DIMENSIONS					
DIM INCHES		HES	MM		NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
А	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	0.0	)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	
М	0.003	0.008	0.08	0.22	

#### Suggested Solder Pad Layout





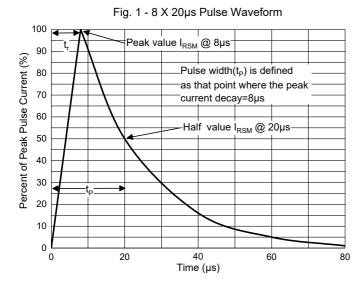
### Electrical Characteristics @ 25°C (Unless Otherwise Specified)

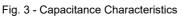
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V <sub>RWM</sub>	Pin 5 to Pin 2			3.3	V
Punch-Through Voltage	V <sub>PT</sub>	I <sub>T</sub> =2µA, Pin 5 to Pin 2	3.5		5.3	V
Snap-Back Voltage	$V_{SB}$	I <sub>SB</sub> =50mA	2.8			V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =3.3V, Pin 5 to Pin 2			0.5	μA
Clamping Voltage	V <sub>c</sub>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs, I/O to GND			6	V
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =22A, t <sub>P</sub> =8/20μs, I/O to GND			14	V
Junction Capacitance	CJ	V <sub>R</sub> =0V, f=1MHz, I/O to GND		3	5	pF
Junction Capacitance	CJ	V <sub>R</sub> =0V, f=1MHz, I/O to I/O		1.5		pF

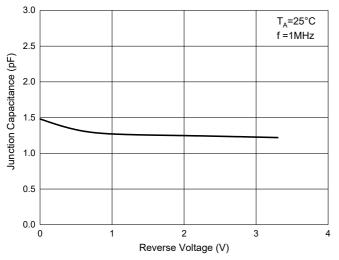
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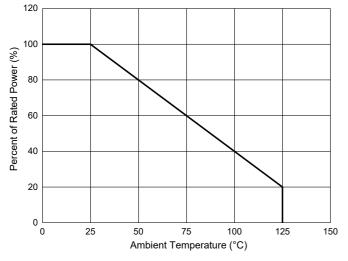
# **Curve Characteristics**











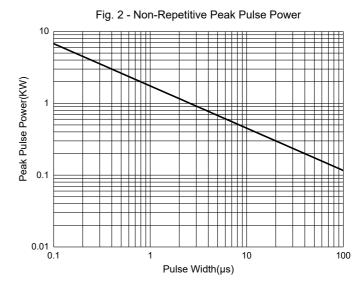
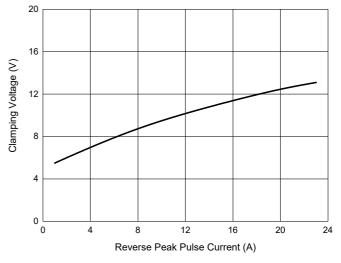


Fig. 4 - Clamping Voltage Characteristics





## **Ordering Information**

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

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