

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

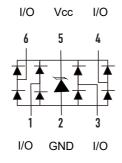
MCC Part Number	Device Marking	
SRV33-4L	SRV33	

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV	
Peak Pulse Current(8/20μs)	I _{PP}	22A	
Peak Pulse Power (8/20µs)	P _{PK}	300W	

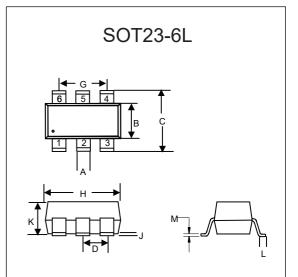
Note:

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

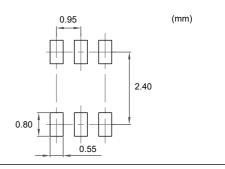


ESD Protection Device



DIMENSIONS						
DIM	DIM INCHES		MM		NOTE	
DIIVI	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	0.037		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		
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		

Suggested Solder Pad Layout



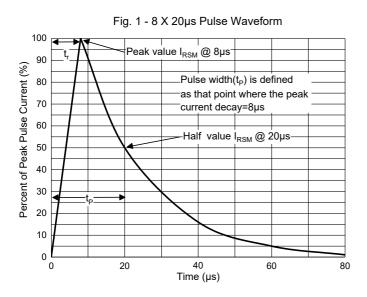


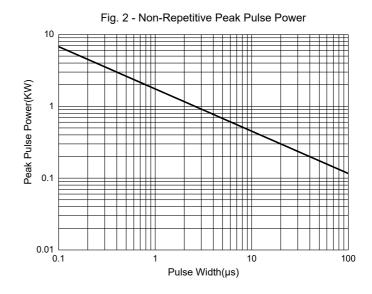
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

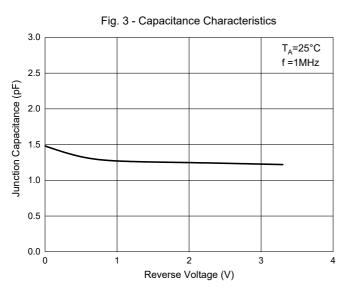
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}	Pin 5 to Pin 2			3.3	V
Punch-Through Voltage	V _{PT}	I _T =2μA, Pin 5 to Pin 2	3.5		5.3	V
Snap-Back Voltage	V _{SB}	I _{SB} =50mA	2.8			V
Reverse Leakage Current	I _R	V _{RWM} =3.3V, Pin 5 to Pin 2			0.5	μА
Clamping Voltage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

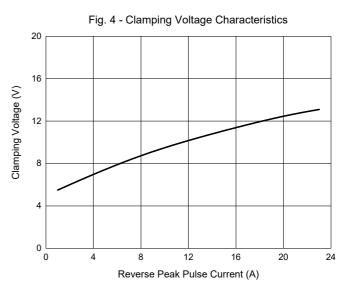


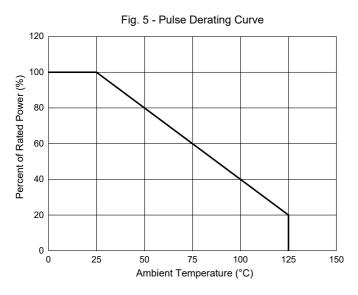
Curve Characteristics













Ordering Information

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

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