

Features

- Protects 4 I/O Lines
- Low Clamping Voltage
- Low Capacitance
- Can Handle Multiple ESD Strikes
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

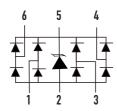
Maximum Ratings

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

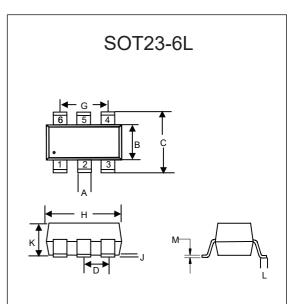
MCC Part Number	Device Marking
PSRV05-4	V05

IEC61000-4-2(ESD)	Air Contact	±15KV ±8KV
IEC61000-4-4 (EFT) @5/50ns		40A
Peak Pulse Current(8/20µs)	I _{PP}	25A
Peak Pulse Power (8/20us)	Р _{РК}	500W

Internal Structure







DIMENSIONS					
DIM	INCHES		MM		NOTE
DIN	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	0.074		0.074 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	



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V _{BR}	I _T = 1mA, Pin 5 to Pin 2	6			V
Reverse Leakage Current	I _R	V _{RWM} =5V			1	μA
Clamping Voltage	Vc	I _{PP} =1A, t _P =8/20μs, I/O Pin to GND			12.5	V
Clamping Voltage	V _c	I _{PP} =5A, t _P =8/20μs, I/O Pin to GND			15	V
Clamping Voltage	V _c	I _{PP} =25A, t _P =8/20μs, I/O Pin to GND			20	V
Junction Capacitance	CJ	$V_R = 0V$, f = 1MHz, I/O Pin to GND		4		pF
Junction Capacitance	CJ	V _R = 0V, f = 1MHz, Between I/O Pins		2	4	pF



Curve Characteristics

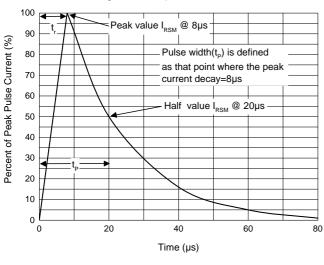
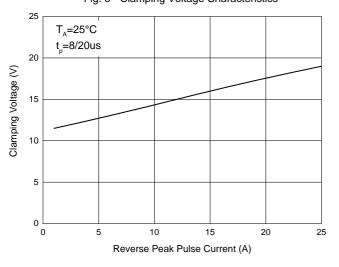
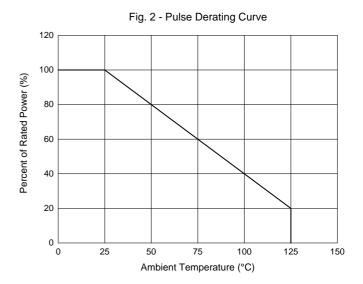


Fig. 1 - 8 X 20µs Pulse Waveform









PSRV05-4

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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