

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)

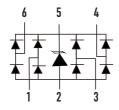
Maximum Ratings

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

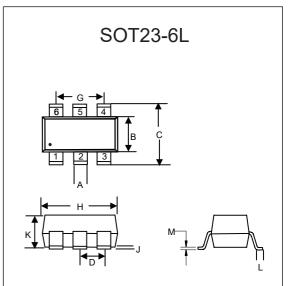
MCC Part Number	Device Marking		
PSRV05-4	V05		

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)	P_{PK}	500W	

Internal Structure



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		

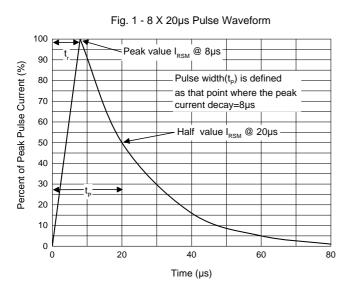


Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
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	V _C	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	C _J	$V_R = 0V$, $f = 1MHz$, I/O Pin to GND		4		pF
Junction Capacitance	CJ	V _R = 0V, f = 1MHz, Between I/O Pins		2	4	pF



Curve Characteristics



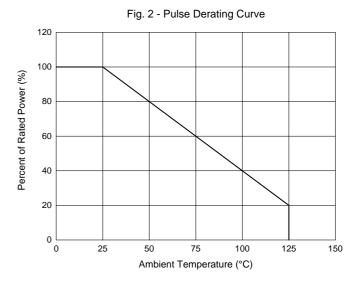
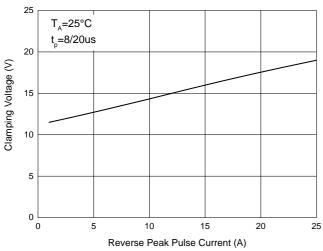


Fig. 3 - Clamping Voltage Characteristics





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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