

Features

- For Sensitive ESD Protection
- Excellent Clamping Capability
- Low Leakage
- Fast Response, Response Time Less than 1ns
- 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)

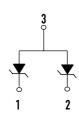
Maximum Ratings

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

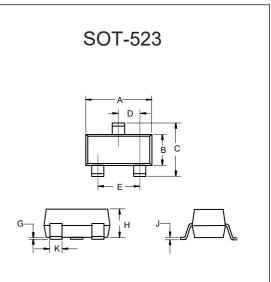
MCC Part Number	Device Marking
ESDLC5V0T5	P5

IEC61000-4-2(ESD)	Air Contact	±15KV ±8KV
Peak Pulse Power (8/20us)	Р _{РК}	125W

Internal Structure

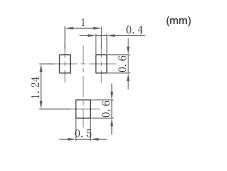






	DIMENSIONS				
DIM	INCHES		MM		NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
Α	0.059	0.067	1.50	1.70	
В	0.030	0.033	0.75	0.85	
С	0.057	0.069	1.45	1.75	
D	0.0	020	0.	50	TYP.
Е	0.035	0.043	0.90	1.10	
G	0.000	0.004	0.00	0.10	
Н	0.024	0.031	0.60	0.80	
J	0.004	0.008	0.10	0.20	
Κ	0.006	0.014	0.15	0.35	

SUGGESTED SOLDER PAD LAYOUT





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	5.6			V
Reverse Leakage Current	I _R	V _{RWM} =5V			1	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20µs, Pin1 to Pin2			13.5	V
Clamping Voltage	V _C	I _{PP} =5A, t _P =8/20µs, Pin1or Pin2 to Pin3			20	V
Clamping Voltage	V _c	I _{PP} =5A, t _P =8/20µs, Pin1 to Pin2			23	V
Junction Capacitance	CJ	$V_R = 0V$, f = 1MHz, Pin1 to Pin2		1.4	2	pF
Junction Capacitance	CJ	$V_R = 0V$, f = 1MHz, Pin1or Pin2 to Pin3		2.8	3.5	pF



Curve Characteristics

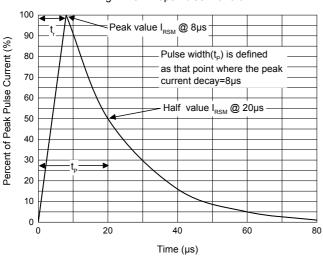


Fig. 1 - 8 X 20µs Pulse Waveform



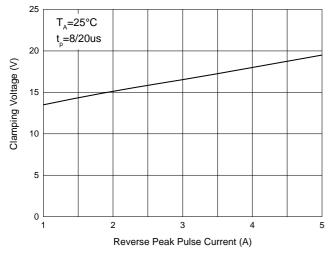
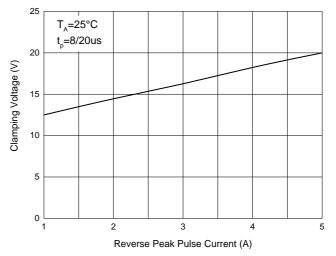


Fig. 2 - Pulse Derating Curve 120 100 Percent of Rated Power (%) 80 60 40 20 0 ∟ 0 25 50 75 100 125 150 Ambient Temperature (°C)

Fig. 4 -PIN1 to PIN2 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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