

Features

- High Power Rating
- Low Capacitance
- Low Leakage Current
- Low Clamping Voltage
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

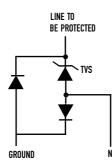
- Operating Junction Temperature Range: 55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDLC5V0C2	V5C1

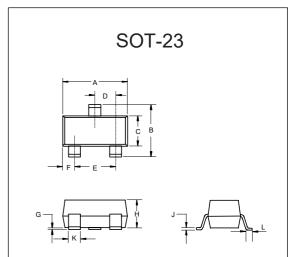
IEC61000-4-2(ESD)	Air Contact	±25KV ±25KV	
Peak Pulse Power (8/20us)	P _{PK}	650W	

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

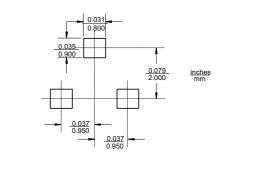






DIMENSIONS					
DIM	INC	HES	M	IM	NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
Е	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
Κ	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout





Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V _{BR}	I _T = 1mA	6		8	V
Reverse Leakage Current	I _R	V _{RWM} =5V			1	μA
Forward Voltage	V _F	I _F = 10mA			0.9	V
Clamping Voltage	V _c	I _{PP} =25A, t _P =8/20μs			26	V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz		1.3	2	pF

Electrical Characteristics (Between I/O to GND) @ 25°C (Unless Otherwise Specified)



Curve Characteristics

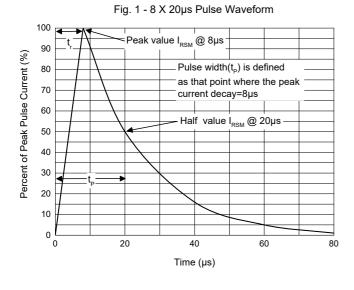


Fig. 3 - Capacitance Characteristics

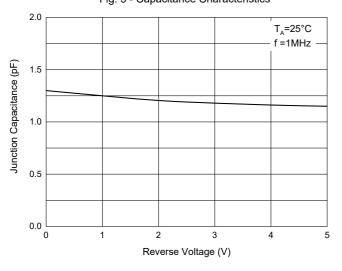
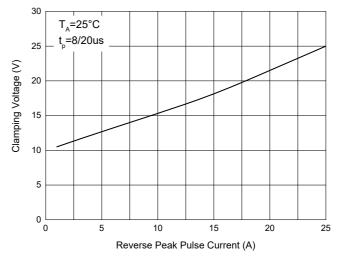


Fig. 2 - Pulse Derating Curve 120 100 Percent of Rated Power (%) 80 60 40 20 0 0 25 50 75 100 125 150 Ambient Temperature (°C)

Fig. 4 - Clamping Voltage Characteristics





Ordering Information

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

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