

Features

- · High Power Rating
- · Low Capacitance
- · Low Leakage
- · 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

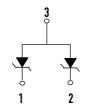
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDSLC5V0T2	5M

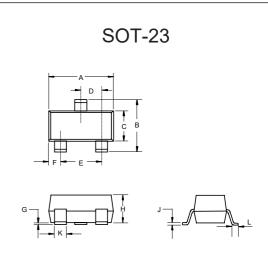
IEC61000-4-2(ESD)	Air Contact	±20KV ±15KV
Peak Pulse Current(8/20µs)	I _{PP}	5A
Peak Pulse Power (8/20us)	P _{PK}	100W

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

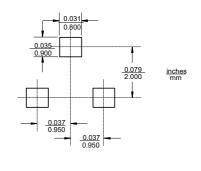


ESD Protection Device



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	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		
K	0.012	0.020	0.30	0.51		
L	0.007	0.020	0.20	0.50		

Suggested Solder Pad Layout



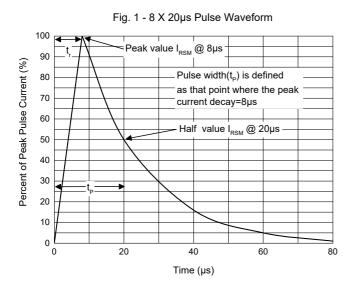


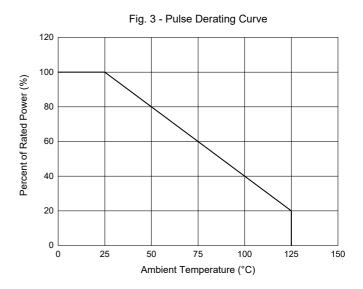
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

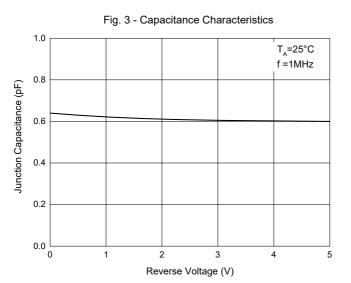
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}	Pin 1 or Pin 2 to Pin 3 and Between Pin 1 and Pin 2			5	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA, Pin 1 or Pin 2 to Pin 3 and Between Pin 1 and Pin 2	6			V
Reverse Leakage Current	I _R	V _{RWM} =5V,Pin 1 or Pin 2 to Pin 3 and Between Pin 1 and Pin 2			0.5	μА
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs, Pin 1 or Pin 2 to Pin 3		10	15	V
Clamping Voltage	V _C	I _{PP} =5A, t _P =8/20μs, Pin 1 or Pin 2 to Pin 3		15	20	V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz, Between Pin 1 and Pin 2		0.3	0.4	pF
Junction Capacitance	CJ	V _R = 0V, f = 1MHz, Pin 1 or Pin 2 to Pin 3			0.8	pF

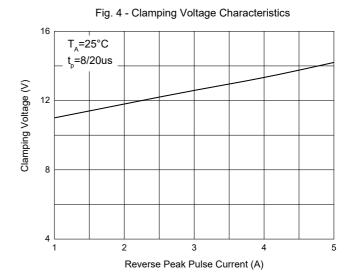


Curve Characteristics











Ordering Information

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

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