



Micro Commercial Components

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ESDSLC5V0T2

Features

- High Power Rating
- Low Capacitance
- Stand-off Voltage:5V
- Low leakage
- · Low clamping voltage
- 100W peak pulse power (tp=8/20us)
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

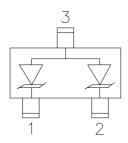
Maximum Ratings

Operating Junction Temperature: -55°C to +125°C

• StorageTemperature: -55°C to +150°C

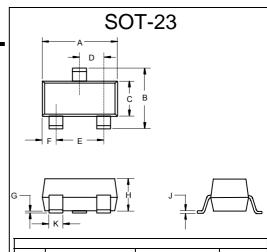
Parameter		Symbol	Limits	unit
IEC61000-4-2(ESD)	Air Contact		±20 ±15	KV
Peak Pulse Power (tp=8/20µs)		Pd	100	W
Peak Pulse Current(tp=8/20µs)		I _{PP}	5	Α

Pin Configuration-Top View

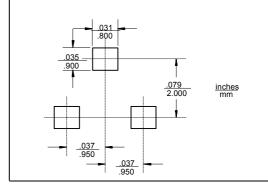


Marking Code: 5M

5Volts ESD Protection Devices



	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
Е	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	



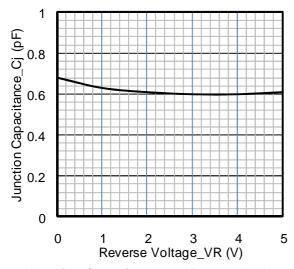


ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

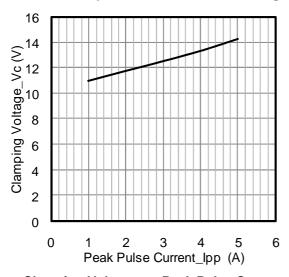
Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Working Voltage	VRWM			5	V	Pin 1 or pin 2 to pin 3 and between pin 1 and pin 2
Breakdown Voltage	VBR	6			V	IT = 1mA, pin 1 or pin 2 to pin 3 and between pin 1 and pin 2
Reverse Leakage Current	I _R			0.5	uA	VRWM = 5V, Pin 1 or pin 2 to pin 3 and between pin 1 and pin 2
Clamping Voltage	Vc		10	15	V	IPP = 1A (8 x 20 μ s pulse), pin 1 or pin 2 to pin 3
Clamping Voltage	Vc		15	20	V	IPP = $5A$ (8 x $20\mu s$ pulse), pin 1 or pin 2 to pin 3
Junction Capacitance	CJ		0.3	0.4	pF	VR = 0V, f = 1MHz, between pin 1 and pin 2
Junction Capacitance	Сл			0.8	pF	VR = 0V, f = 1MHz, pin 1 or pin 2 to pin 3



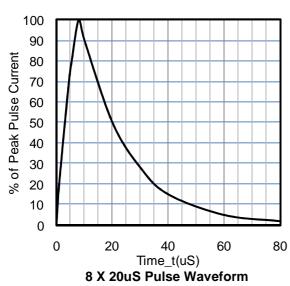
TYPICAL CHARACTERISTICS

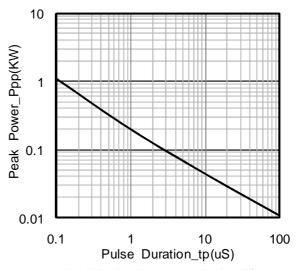


Junction Capacitance vs. Reverse Voltage

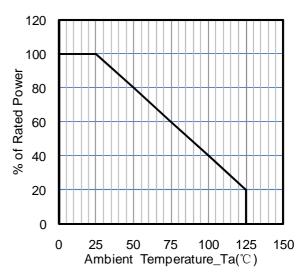


Clamping Voltage vs. Peak Pulse Current

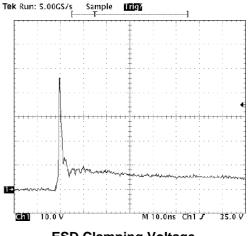




Peak Pulse Power vs. Pulse Time



Power Derating Curve



ESD Clamping Voltage



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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