Leiditech

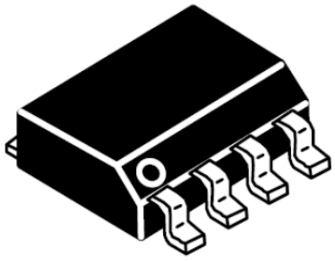
SMDA12C-5

TVS DIODE ARRAY FOR FIVE I/O LINES PROTECTION

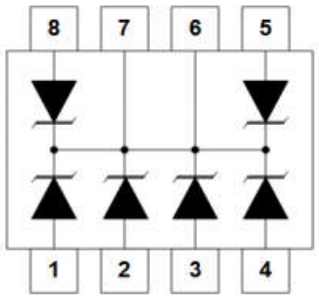
Features

- Ultra low leakage: nA level
- Operating voltage: 12V
- Low clamping voltage
- Complies with following standards:
  - – IEC 61000-4-2 (ESD) immunity test
    - Air discharge: ±25kV
    - Contact discharge: ±15kV
  - – IEC61000-4-4 (EFT) 40A (5/50ns)
  - – IEC61000-4-5 (Lightning) 12A(8/20μs)
- RoHS Compliant

Dimensions SOP-08



Pin Configuration



Applications

- RS-232 and RS-422 Data Lines
- Microprocessor Based Equipment
- LAN/WAN Equipment
- Notebook, Desktops and Servers
- Instrumentation
- Peripherals
- Serial and Parallei Ports

Mechanical Characteristics

- Package: SOP-08
- Lead Finish: Lead Free
- UL Flammability Classification Rating 94V-0
- Quantity Per Reel:2500pcs
- Reel Size:13inch

Absolute Maximum Ratings(Tamb=25°C unless otherwise specified)

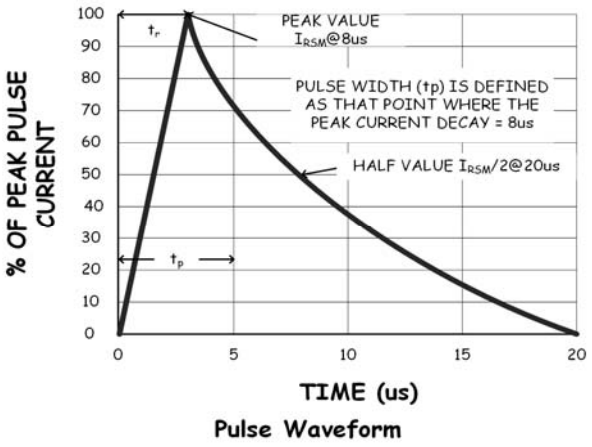
Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs)	Ppp	300	W
ESD per IEC 61000−4−2 (Air)	V_{ESD}	±25	Kv
ESD per IEC 61000−4−2 (Contact)		±15	
Operating Temperature Range	T_J	-55 to +125	℃
Storage Temperature Range	T_{STJ}	-55 to +150	℃

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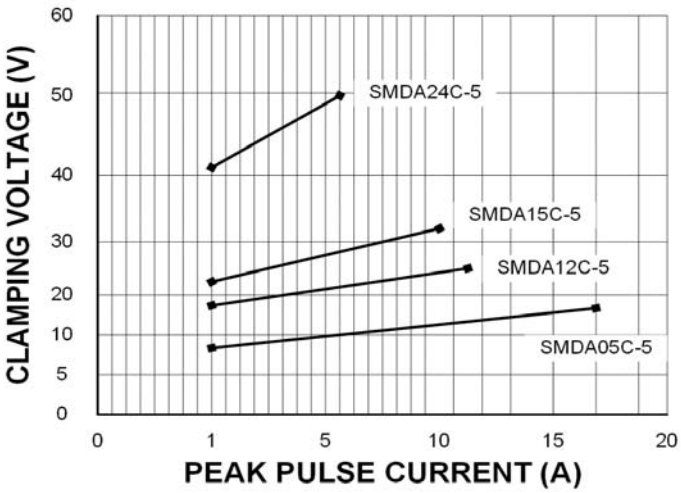
Electrical Characteristics(TA=25°C unless otherwise specified)

Part Number	Device Marking	V_{RWM} (V)	V_{BR} (V)	I_T (mA)	V_C @1A	Vc		I_R μA (Max)	C (Pf) (Typ.)
						(Max)	(@A)		
SMDA12C-5	SMDA12C-5	12	13.3	1	19	26	12	1	120

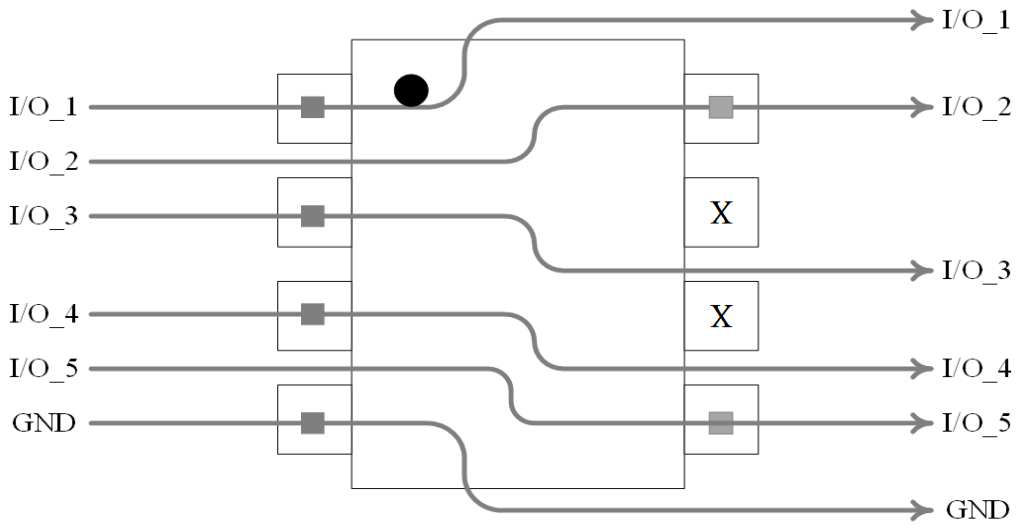
Characteristic Curves



Pulse Waveform



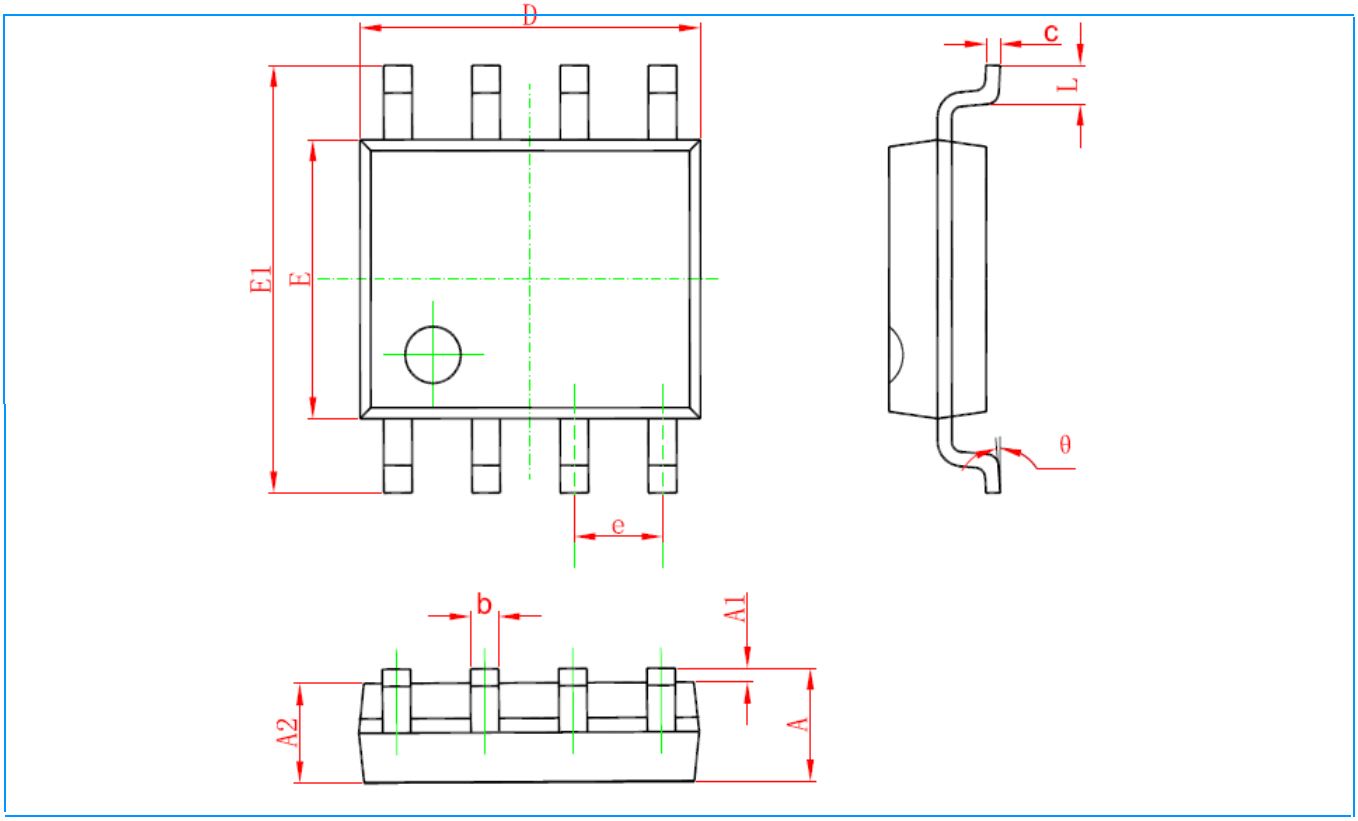
LAYOUT DIAGRAM INFORMATION



Five Channel Protection (Bidirectional Protection)

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SOP-08 Mechanical Data



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.350	1.750	0.053	0.069
A1	0.100	0.250	0.004	0.010
A2	1.350	1.550	0.053	0.061
b	0.330	0.510	0.013	0.020
c	0.170	0.250	0.006	0.010
D	4.700	5.100	0.185	0.200
E	3.800	4.000	0.150	0.157
E1	5.800	6.200	0.228	0.244
e	1.270 (BSC)		0.050 (BSC)	
L	0.400	1.270	0.016	0.050
θ	0°	8°	0°	8°

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