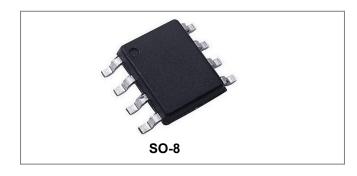


Technical Data Data Sheet N0285, Rev. B





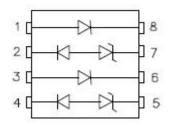
S8ULC03-2 THRU S8ULC36-2 TVS ARRAY SERIES



Description

The S8ULCXX-2 series of TVS array have been designed to provide unidirectional protection for sensitive electronics from damage due to voltage transients caused by electrostatic discharge (ESD), electrical fast transients (EFT), lightning and other voltage-induced transient events. The device can be used to protect up to 2 unidirectional lines.

Schematic & Pin Configuration



Features

- Protects 3.3, 5, 12, 15, 24, 36V Components
- Unidirectional
- Ultra Low Capacitance 3 pF
- Provides Electrically Isolated Protection
- 500 W @ 8/20 us
- Protects 2 Lines
- SO-8 Packaging
- "-A" is an AEC-Q101 qualified device
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Characteristics

- SO-8 Surface Mount Package
- Approximate Weight: 0.1 grams
- PIN #1 Indicator: DOT on top of package
- Packaging: Tubes or Tape & Reel per EIA Standard 481

Application

- 10/100 Base T Ethemet
- USE
- Cellular Phone Terminals
- Audio/Video Inputs
- XDSL Interfaces

Absolute Maximum Ratings:

Parameter	Symbol	Value	Units
Peak Pulse Power, 8/20 µs Wave shape	Р	500	W
Operating Temperature	Τ _J	-55 to +125	°C
Storage Temperature	T _{stg}	-55 to +150	°C
Lead Soldering Temperature	T∟	260 (10 Sec.)	°C

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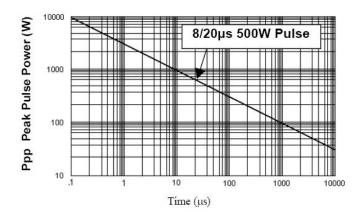




Electrical Characteristics@25°C

Part Number	Stand-off Voltage Vwm (V) Max	Breakdown Voltage V _{BR} @1mA (V) Min	Clamping Voltage Vc @ 1 A (V) Max	Leakage Current I _R @ Vwm (uA) Max	Capacitance (f = 1MHz) C @ 0V (pF) Max	Temperature Coefficient of V _{BR} a(V _{BR)} mv/°C Max
S8ULC03-2	3.3	4	8	200	3	-5
S8ULC05-2	5.0	6	10.8	20	3	1
S8ULC12-2	12.0	13.3	19	1	3	8
S8ULC15-2	15.0	16.7	25	1	3	11
S8ULC24-2	24.0	26.7	44	1	3	28
S8ULC36-2	36.0	40	60	1	3	-

Ratings and Characteristics Curves



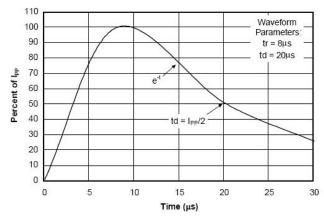


Figure 1. Peak Pulse Power Vs Pulse Time (µs)

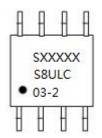
Figure 2. Pulse Wave Form

Ordering Information

Device	Package	Shipping
S8ULC03-2 THRU S8ULC36-2	SO-8 (Pb-Free)	2500pcs / reel
S8ULC03-2TR THRU S8ULC36-2TR	SO-8 (Pb-Free)	2500pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



Where XXXXX is YYWWL

 S8ULC03-2
 = Part Number

 S
 = S

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin Epoxy resin UL:94V-0

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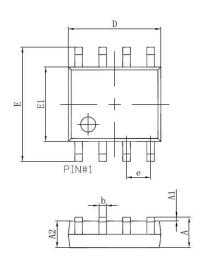


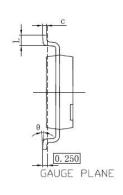
Technical Data Data Sheet N0285, Rev. B





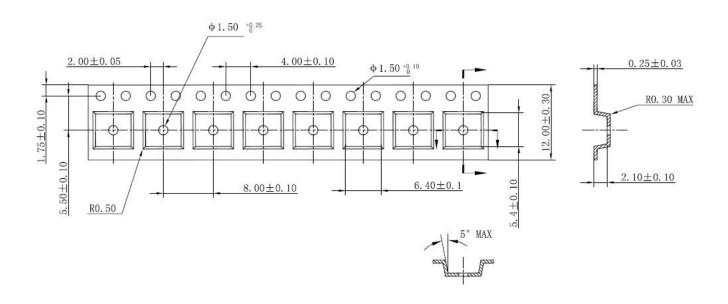
Mechanical Dimensions SO-8





SYMBOL	Millimeters		Inches	
	MIN.	MAX.	MIN.	MAX.
Α	1.350	1.800	0.053	0.071
A1	0.100	0.250	0.004	0.010
A2	1.350	1.750	0.053	0.069
b	0.306	0.510	0.012	0.020
С	0.150	0.300	0.006	0.012
D	4.720	5.120	0.186	0.202
е	1.140	1.400	0.045	0.055
E	5.700	6.300	0.224	0.248
E1	3.750	4.150	0.148	0.163
L	0.300	1.270	0.012	0.050
θ	0°	8°	0°	8°

Carrier Tape Specification SO-8



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Technical Data Data Sheet N0285, Rev. B





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