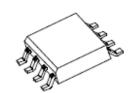


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TVS ARRAY SERIES

FEATURES

- Protects 3.3, 5, 12, 15, 24 V Components
- ✓ Unidirectional
- ✓ Ultra low Capacitance 3 pF
- ✓ Provides Electrically Isolated Protection
- √ 500 W @ 8/20 μs
- ✓ Protects 2 Lines
- √ SO-8 Packaging
- √ This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

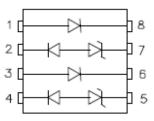


SO-8

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



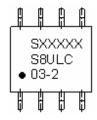
APPLICATION

- √ 10/100 Base T Ethernet
- ✓ USB
- ✓ Cellular Phone Terminals
- ✓ Audio/Video Inputs
- ✓ XDSL Interfaces

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

MARKING DIAGRAM



Where XXXXX is YYWWL

S8ULC03-2 = Part Name

S = S YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

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Ordering Information:

Device	Package	Shipping
S8ULC03-2 THRU S8ULC24-2	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.

ABSOLUTE MAXIMUM RATINGS						
Symbol	Parameter	Value	Unit			
P	Peak Pulse Power, 8/20 μs Waveshape	500	W			
T_J	Operating Temperature	-55 to +125	°C			
T _{STG}	Storage Temperature	-55 to +150	°C			
TL	Lead Soldering Temperature	260 (10 Sec.)	°C			

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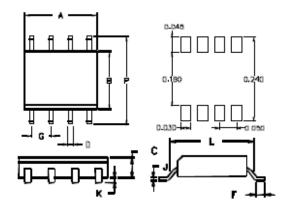
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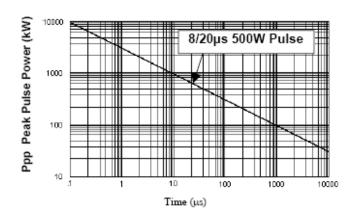
ELECTRICAL CHARACTERISTICS @ 25 °C						
Part Number	Stand-off	Breakdown	Clamping	Leakage	Capacitance	Temperature
	Voltage	Voltage	Voltage	Current	(f = 1MHz)	Coefficient
		V_{BR}	Vc	I _R	С	of V _{BR}
	V_{wm}	@1mA	@ 1 A	@ V _{wm}	@ 0V	a(V _{BR})
	(v)	(V)	(V)	(μA)	(pF)	mv/°C
	Max	Min	Max	Max	Max	Max
S8ULC03-2	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

PACKAGE OUTLINES & DEMENSIONS



	INCHES		MILLIMETERS	
DIM	MIN.	MAX	MIN.	MAX.
A	0.189	0.196	4.8	5.0
В	0.150	0.157	3.8	4.0
С	0.053	0.069	1.35	1.75
D	0.011	0.021	0.28	0.53
F	0.016	0.050	0.41	1.27
G	0.050 BSC		1.27 BSC	
J	0.006	0.010	0.15	0.25
K	0.004	0.008	0.10	0.20
L	0.189	0.206	4.80	5.23
P	0.228	0.244	5.79	6.19

TYPICAL CHARACTERISTICS





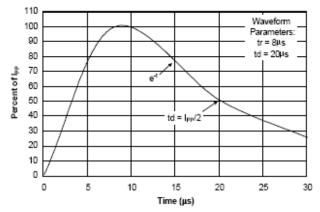
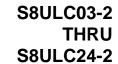


Figure 2. Pulse Wave Form

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