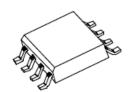
S8ULCC03-2 THRU S8ULCC24-2

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## TVS ARRAY SERIES

### **FEATURES**

- ✓ Protects 3.3, 5, 12, 15, 24 V Components
- ✓ Bidirectional
- ✓ 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.

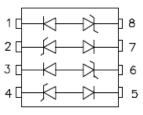


SO-8

### DESCRIPTION

The S8ULCCXX-2 series of TVS array have been designed to provide bidirectional 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 bidirectional lines.

### SCHEMATIC & PIN CONFIGURATION



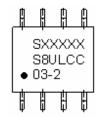
### **APPLICATION**

- √ 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



Cautions: Molding resin Epoxy resin UL:94V-0 Where XXXXX is YYWWL

S8ULCC03-2 = Part Name

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

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# **Ordering Information:**

Device	Package	Shipping
S8ULCC03-2 THRU S8ULCC24-2	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			
Р	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			
$T_L$	Lead Soldering Temperature	260 (10 Sec.)	°C			

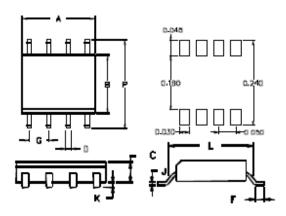
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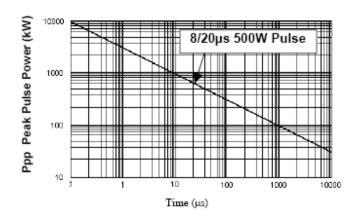
ELECTRICAL CHARACTERISTICS @ 25 °C						
Part Number	Stand-off	Breakdown	Clamping	Leakage	Capacitance	Temperature
	Voltage	Voltage	Voltage	Current	(f = 1MHz)	Coefficient
		$V_{BR}$	V <sub>c</sub>	I <sub>R</sub>	С	of V <sub>BR</sub>
	$V_{wm}$	@1mA	@ 1 A	@ V <sub>wm</sub>	@ 0V	a(V <sub>BR</sub> )
	(v)	(V)	(V)	(μΑ)	(pF)	mv/°C
	Max	Min	Max	Max	Max	Max
S8ULCC03-2	3.3	4	8	200	5	-5
S8ULCC05-2	5.0	6	9.8	20	5	1
S8ULCC12-2	12.0	13.3	19	1	5	8
S8ULCC15-2	15.0	16.7	24	1	5	11
S8ULCC24-2	24.0	26.7	43	1	5	28

## PACKAGE OUTLINES & DEMENSIONS



	INC	HES	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





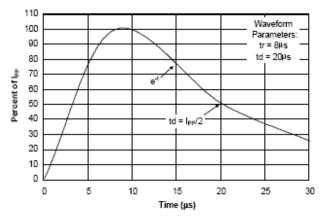


Figure 2. Pulse Wave Form

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Technical Data
Data Sheet N0286, Rev. -

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