\$8C03-2 thru \$8C24-2

TECHNICAL DATA DATA SHEET 1914, REV. -

TVS ARRAY SERIES

FEATURES

- ✓ Protects 3.3, 5, 12, 15, 24 V Components
- ✓ Bidirectional
- √ Low Capacitance < 25 pF
 </p>
- ✓ Provides Electrically Isolated Protection
- √ 500 W @ 8/20 μs
- ✓ Protects 2 Lines
- √ SO-8 Packaging

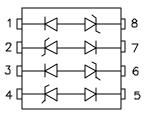


SO-8

DESCRIPTION

The S8CXX-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

- ✓ Portable Electronics
- ✓ USB, ADSL & SCSI Interface
- ✓ Cellular Phone Terminals
- ✓ Audio/Video Inputs
- ✓ LAN Interconnects

MECHANICAL CHARACTERISTICS

- ✓ SO-8 Surface Mount Package
- ✓ Approximate Weight: 0.1 grams
- ✓ Marking: Device number, Date code, & Logo
- ✓ PIN #1 Indicator: DOT on top of package
- ✓ Packaging: Tubes or Tape & Reel per EIA Standard 481

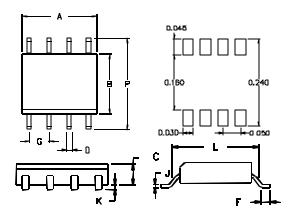
ABSOLUTE MAXIMUM RATINGS

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 _I	Lead Soldering Temperature	260 (10 Sec.)	°C

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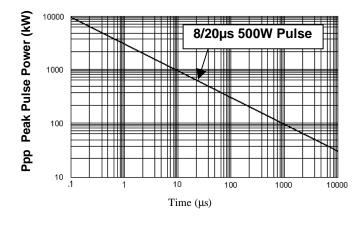
ELECTRICAL CHARACTERISTICS @ 25 °C									
Part Number	Stand-off	Breakdown	Clamping	Leakage	Capacitance	Temperature			
	Voltage	Voltage	Voltage	Current	(f = 1MHz)	Coefficient			
		V_{BR}	V_c	I_R	С	of V _{BR}			
	V_{wm}	@1mA	@ 1 A	@ V _{wm}	@ 0V	a(V _{BR})			
	(v)	(V)	(V)	(μA)	(pF)	mv/°C			
	Max	Min	Max	Max	Max	Max			
S8C03-2	3.3	4	7	200	25	-5			
S8C05-2	5.0	6	9.8	40	25	1			
S8C12-2	12.0	13.3	19	1	25	8			
S8C15-2	15.0	16.7	24	1	25	11			
S8C24-2	24.0	26.7	43	1	25	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	
C	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



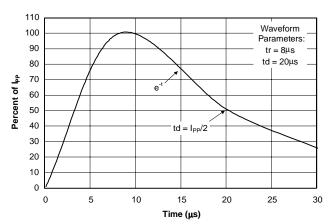


Figure 1. Peak Pulse Power Vs Pulse Time (ms)

Figure 2. Pulse Wave Form



TECHNICAL DATA

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