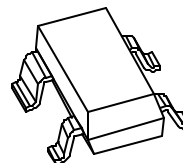
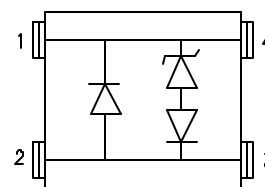


TECHNICAL DATA
DATA SHEET 1920, REV. -**TVS ARRAY SERIES****FEATURES**

- ✓ Protects 3.3, 5, 12, 15, 24 V Components
- ✓ Unidirectional
- ✓ Low Capacitance 5 pF
- ✓ Low Leakage
- ✓ Provides Electrically Isolated Protection
- ✓ 300 W @ 8/20 μ s
- ✓ Protects 1 line
- ✓ SOT-143 Packaging

SOT-143**DESCRIPTION**

The S4304XX 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), secondary lightning and other voltage-induced transient events. The device can be used to protect 1 unidirectional data line or interface line.

SCHEMATIC & PIN CONFIGURATION**APPLICATION**

- ✓ WAN/LAN Equipment
- ✓ Cellular phone
- ✓ Notebooks, Desktops, & Servers
- ✓ Audio/Video Inputs
- ✓ Handheld Electronics
- ✓ FireWire, SCSI & **USB** interfaces

MECHANICAL CHARACTERISTICS

- ✓ SOT-143 Surface Mount Package
- ✓ Approximate Weight: 0.03 grams
- ✓ Marking: Device Marking Code
- ✓ PIN #1 Indicator: DOT on top of package
- ✓ Packaging: Tape and Reel Per EIA 481

ABSOLUTE MAXIMUM RATINGS

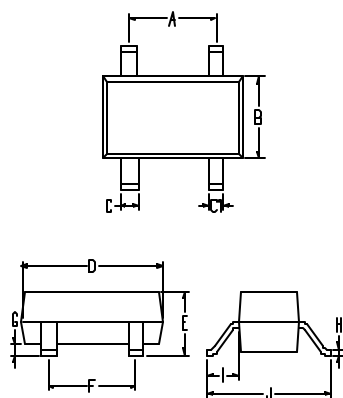
Symbol	Parameter	Value	Unit
P	Peak Pulse Power, 8/20 μ s Waveshape	300	W
T _J	Operating Temperature	-55 to +125	°C
T _{STG}	Storage Temperature	-55 to +150	°C
T _L	Lead Soldering Temperature	260 (10 Sec.)	°C

TECHNICAL DATA
DATA SHEET 1920, REV. -

ELECTRICAL CHARACTERISTICS @ 25 °C

Part Number	Stand-off Voltage V_{wm} (V) Max	Breakdown Voltage V_{BR} @1mA (V) Min	Clamping Voltage V_c @ 1 A (V) Max	Leakage Current I_R @ V_{wm} (μ A) Max	Capacitance (f = 1MHz) C @ 0V (pF) Max	Temperature Coefficient of V_{BR} a(V_{BR}) mV/°C Max
S430403	3.3	4	8	200	5	-5
S430405	5.0	6	10.8	20	5	1
S430412	12.0	13.3	19	1	5	8
S430415	15.0	16.7	24	1	5	11
S430424	24.0	26.7	43	1	5	28

PACKAGE OUTLINES & DEMENSIONS



DIM	INCHES		MILLIMETERS	
	MIN.	MAX	MIN.	MAX.
A	0.070	0.080	1.778	2.032
B	0.047	0.055	1.194	1.397
C	0.030	0.037	0.762	0.940
C1	0.015	0.020	0.381	0.508
D	0.110	0.119	2.794	3.023
E	0.035	0.044	0.889	1.118
F	0.071	0.079	1.803	2.007
G	0.0006	0.006	0.015	0.152
H	0.003	0.007	0.076	0.178
I	0.018	0.023	0.457	0.584
J	0.083	0.093	2.108	2.362

TYPICAL CHARACTERISTICS

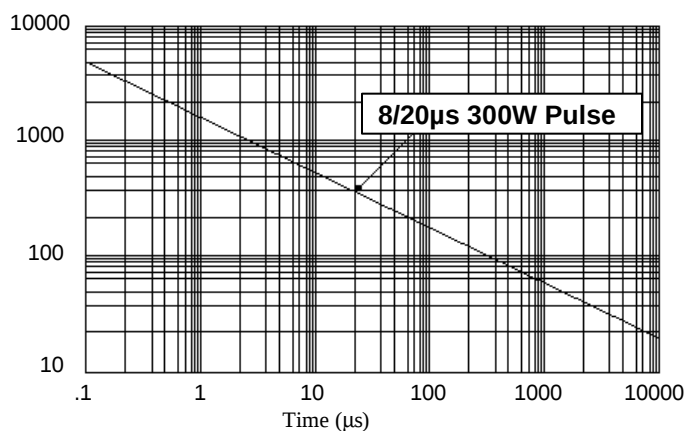


Figure 1. Peak Pulse Power Vs Pulse Time (ms)

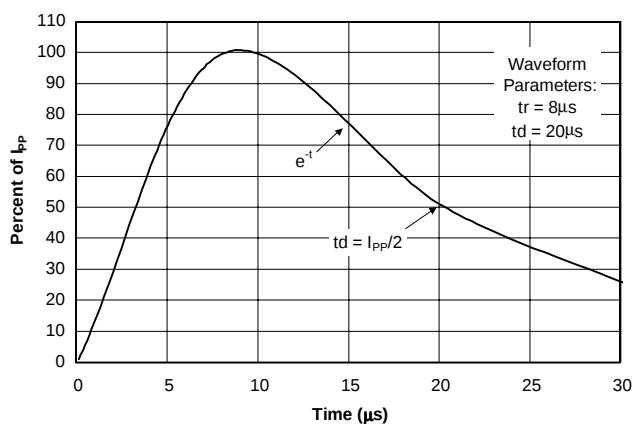


Figure 2. Pulse Wave Form

TECHNICAL DATA

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