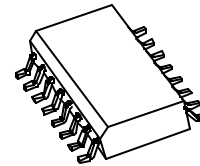
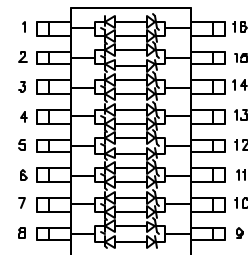


TECHNICAL DATA
DATA SHEET 4618, REV. -**Green Products****TVS ARRAY SERIES****FEATURES**

- ✓ Protects 3.3, 5, 12, 15, 24 V Components
- ✓ Bidirectional
- ✓ Low Capacitance – 25 pF
- ✓ Provides Electrically Isolated Protection
- ✓ 300 W @ 8/20 μ s
- ✓ Protects 8 Lines
- ✓ SO-16 Packaging
- ✓ Green Products in Compliance with the RoHS Directive

SO-16**DESCRIPTION**

The S16LCCXX-8-G 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 combinations of 8 bidirectional lines up to 24 volts.

SCHEMATIC & PIN CONFIGURATION**APPLICATION**

- ✓ RS-422, RS-423, & RS-485 Interfaces
- ✓ WAN/LAN Equipment
- ✓ Wireless Communication Circuits
- ✓ Ethernet – 10/100 Base T
- ✓ Low Voltage ASICs

MECHANICAL CHARACTERISTICS

- ✓ SO-16 Surface Mount Package
- ✓ Approximate Weight: 0.13 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
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

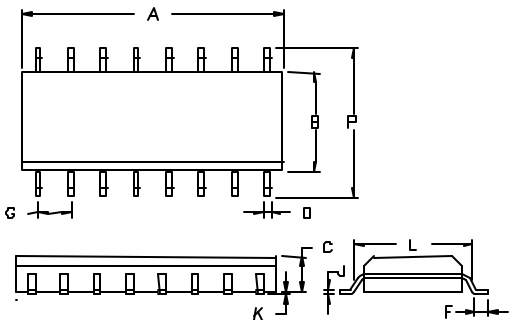
TECHNICAL DATA
DATA SHEET 4618, REV. -

Green Products

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
S16LCC03-8-G	3.3	4	7	200	25	-5
S16LCC05-8-G	5.0	6	9.8	20	25	1
S16LCC12-8-G	12.0	13.3	19	1	25	8
S16LCC15-8-G	15.0	16.7	24	1	25	11
S16LCC24-8-G	24.0	26.7	43	1	25	28

PACKAGE OUTLINES & DIMENSIONS



DIM	INCHES		MILLIMETERS	
	MIN.	MAX	MIN.	MAX.
A	0.358	0.398	9.09	10.10
B	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

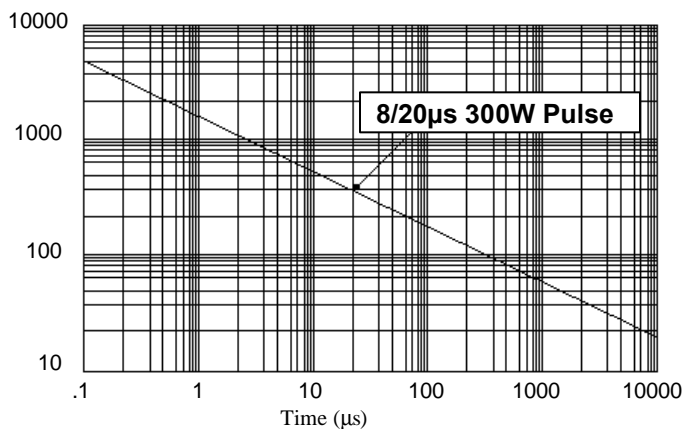


Figure 1. Peak Pulse Power Vs Pulse Time (ms)

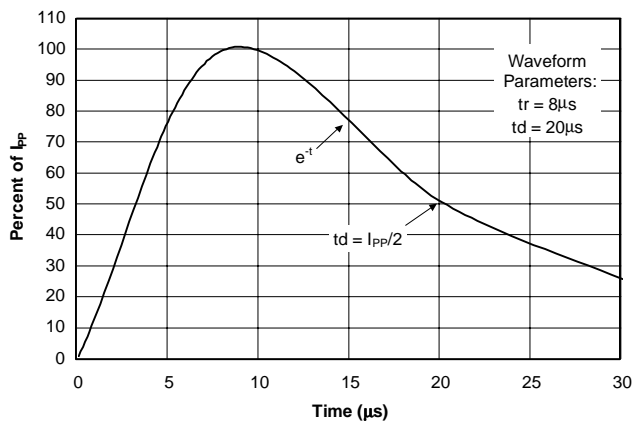


Figure 2. Pulse Wave Form

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