

**FEATURES**

- ✓ Protects 3.3, 5, 12, 15, 24 V Components
- ✓ Bidirectional
- ✓ Provides Electrically Isolated Protection
- ✓ 300 W @ 8/20 μs
- ✓ Protects 4 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

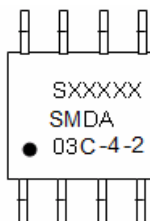
**DESCRIPTION**

The SMDAXXC-4-2 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 combinations of four bidirectional lines.

**APPLICATION**

- ✓ Network Interfaces
- ✓ Portable Electronics
- ✓ Cellular Phone Terminals
- ✓ Audio/Video Inputs
- ✓ I/O Transceivers

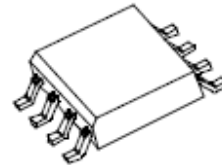
**MARKING DIAGRAM**



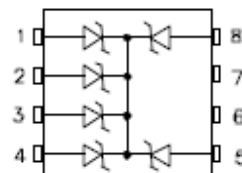
**Cautions:** Molding resin  
Epoxy resin UL:94V-0

**TVS ARRAY SERIES**

**SO-8**



**SCHEMATIC & PIN CONFIGURATION**



**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

Where XXXXX is YYWWL

SMDA03C-4-2 = Part Name  
S = S  
YY = Year  
WW = Week  
L = Lot Number

**Ordering Information:**

Device	Package	Shipping
SMDA03C-4-2 THRU SMDA24C-4-2	SO-8 (Pb-Free)	2500pcs / reel

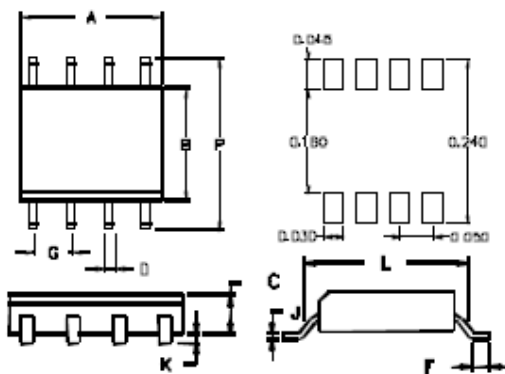
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

**ABSOLUTE MAXIMUM RATINGS**

Symbol	Parameter	Value	Unit
P	Peak Pulse Power, 8/20 $\mu$ s Waveshape	300	W
T <sub>J</sub>	Operating Temperature	-55 to +125	$^{\circ}$ C
T <sub>STG</sub>	Storage Temperature	-55 to +150	$^{\circ}$ C
T <sub>L</sub>	Lead Soldering Temperature	260 (10 Sec.)	$^{\circ}$ C

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 $I_R$ @ $V_{wm}$ ( $\mu$ A) Max	Capacitance (f = 1MHz) C @ 0V (pF) Max	Temperature Coefficient of $V_{BR}$ a( $V_{BR}$ ) mV/°C Max
SMDA03C-4-2	3.3	4	7	200	300	-5
SMDA05C-4-2	5.0	6	9.8	40	200	1
SMDA12C-4-2	12.0	13.3	19	1	75	8
SMDA15C-4-2	15.0	16.7	24	1	50	11
SMDA24C-4-2	24.0	26.7	43	1	35	28

**PACKAGE OUTLINES & DEMENSIONS**



DIM	INCHES		MILLIMETERS	
	MIN.	MAX	MIN.	MAX.
A	0.189	0.196	4.8	5.0
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**

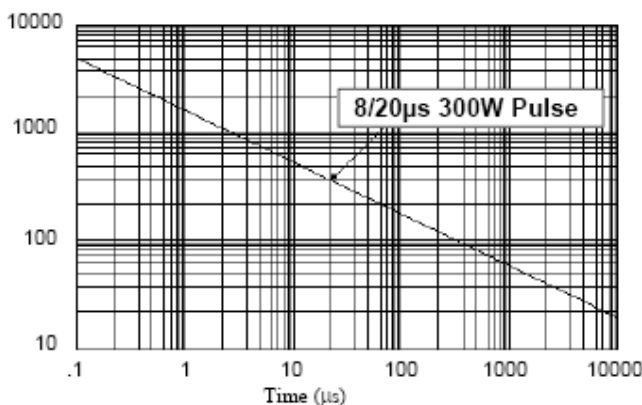


Figure 1. Peak Pulse Power Vs Pulse Time ( $\mu$ s)

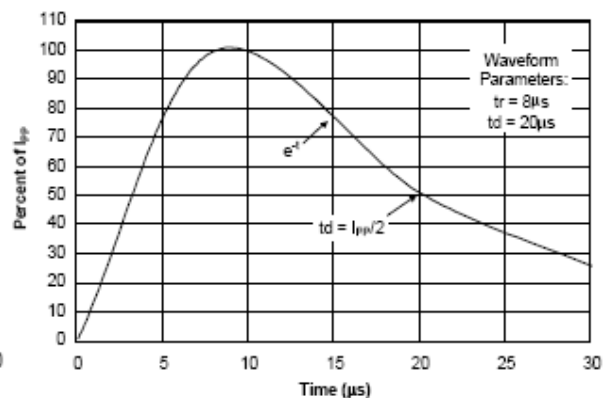


Figure 2. Pulse Wave Form

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