SENSITRON SEMICONDUCTOR

TECHNICAL DATA DATA SHEET 4604, REV. -

SMDA03C-4-G thru SMDA24C-4-G

Green Products

FEATURES

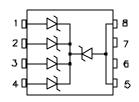
- ✓ Protects 3.3, 5, 12, 15, 24 V Components
- ✓ Bidirectional
- ✓ Provides Electrically Isolated Protection
- ✓ 300 W @ 8/20 µs
- ✓ Protects 4 Lines
- ✓ SO-8 Packaging
- ✓ Green Products in Compliance with the RoHS Directive

DESCRIPTION

The SMDAXXC-4-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 four bidirectional lines.

SCHEMATIC & PIN CONFIGURATION

SO-8



APPLICATION

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

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 Ρ 300 W Peak Pulse Power, 8/20 µs Waveshape Τı **Operating Temperature** -55 to +125 °C T_{STG} Storage Temperature -55 to +150 °C T Lead Soldering Temperature 260 (10 Sec.) °C

TVS ARRAY SERIES

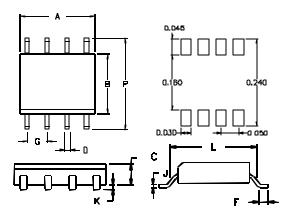
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ELECTRICAL CHARACTERISTICS @ 25 °C

ELECTRICAL CHARACTERISTICS @ 25 °C									
Part Number	Stand-off	Breakdown	Clamping	Leakage	Capacitance	Temperature			
	Voltage	Voltage	Voltage	Current	(f = 1MHz)	Coefficient			
		V _{BR}	Vc	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			
SMDA03C-4-G	3.3	4	7	200	300	-5			
SMDA05C-4-G	5.0	6	9.8	40	200	3			
SMDA12C-4-G	12.0	13.3	19	1	185	10			
SMDA15C-4-G	15.0	16.7	24	1	140	13			
SMDA24C-4-G	24.0	26.7	43	1	90	30			

PACKAGE OUTLINES & DEMENSIONS



	INC	HES	MILLIMETERS		
DIM	MIN.	MAX	MIN.	MAX.	
А	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	
Р	0.228	0.244	5.79	6.19	

TYPICAL CHARACTERISTICS

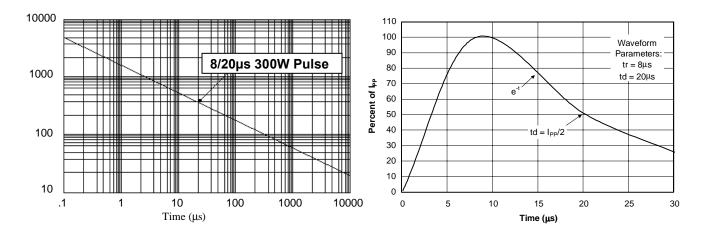




Figure 2. Pulse Wave Form

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