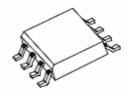
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TVS ARRAY SERIES

FEATURES

- ✓ Protects 3.3, 5, 12, 15, 24 V Components
- ✓ Unidirectional
- ✓ Provides Electrically Isolated Protection
- √ 500 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

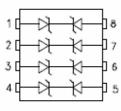
SO-8



DESCRIPTION

The SMDBXX 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), lightning and other voltage-induced transient events. The device can be used to protect combinations of four unidirectional lines.

SCHEMATIC & PIN CONFIGURATION



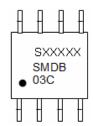
APPLICATION

- √ RS-232 Data Lines
- ✓ Microprocessor Based Equipment
- ✓ Notebooks, Desktops, & Servers
- ✓ LAN/WAN Equipment
- ✓ Serial and Parallel Port
- ✓ Peripherals

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

MARKING DIAGRAM



Cautions: Molding resin

Epoxy resin UL:94V-0

Where XXXXX is YYWWL

SMDB03C = Part Name

S = S YY = Year WW = Week L = Lot Number

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Ordering Information:

Device	Package	Shipping
SMDB03C THRU SMDB24C	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			
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_L	Lead Soldering Temperature	260 (10 Sec.)	°C			

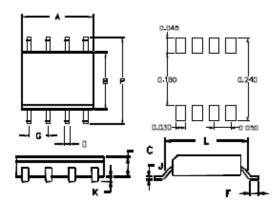
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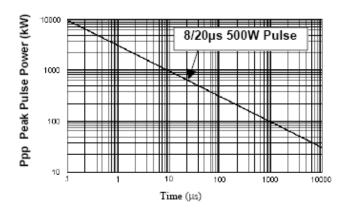
ELECTRICAL CHARACTERISTICS @ 25 °C						
Part Number	Stand-off	Breakdown	Clamping	Leakage	Capacitance	Temperature
	Voltage	Voltage	Voltage	Current	(f = 1MHz)	Coefficient
		V_{BR}	V _c	I _R	С	of V _{BR}
	V_{wm}	@1mA	@ 1 A	@ V _{wm}	@ 0V	a(V _{BR})
	(v)	(V)	(V)	(μA)	(pF)	mv/°C
	Max	Min	Max	Max	Max	Max
SMDB03C	3.3	4	7	200	400	-5
SMDB05C	5.0	6	9.8	40	300	1
SMDB12C	12.0	13.3	19	1	94	8
SMDB15C	15.0	16.7	24	1	70	11
SMDB24C	24.0	26.7	43	1	45	28

PACKAGE OUTLINES & DEMENSIONS



	INCHES		MILLIMETERS	
DIM	MIN.	MAX	MIN.	MAX.
A	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
P	0.228	0.244	5.79	6.19

TYPICAL CHARACTERISTICS





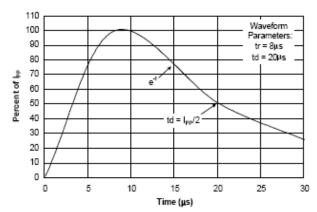


Figure 2. Pulse Wave Form

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SMDB03C THRU SMDB24C

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