

TVS SERIES

FEATURES

- ✓ Protects 3.3, 5, 12, 15, 24 ,36V Components
- ✓ Unidirectional
- ✓ 300 W @ 8/20 μs
- ✓ Protects 4 Lines
- ✓ SOD-323 Packaging
- ✓ This is a Pb - Free Device
- ✓ All SMC parts are traceable to the wafer lot
- ✓ Additional testing can be offered upon request

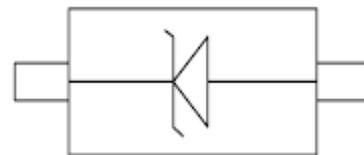
SOD-323



DESCRIPTION

The SD323XX 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



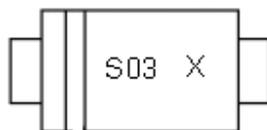
APPLICATION

- ✓ Cell phone handsets and accessories
- ✓ Microprocessor based equipment
- ✓ Personal digital assistants(PDA's)
- ✓ Portable instrumentation
- ✓ Pagers peripherals

MECHANICAL CHARACTERISTICS

- ✓ SOD-323 Surface Mount Package
- ✓ Packaging: Tape & Reel per EIA 481

MARKING DIAGRAM



S03 = SD32303
X = Data Code

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

Ordering Information:

Device	Package	Shipping
SD32303 THRU SD32324	SOD-323(Pb-Free)	3000pcs / reel

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

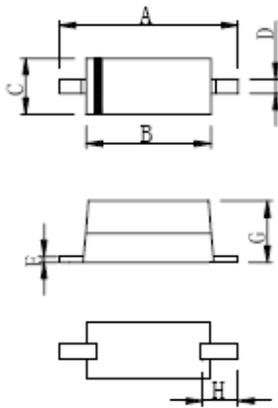
ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
P	Peak Pulse Power, 8/20 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

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
SD32303	3.3	4	7	200	800	-3
SD32305	5.0	6	9.8	20	600	3
SD32312	12.0	13.3	19	1	185	10
SD32315	15.0	16.7	24	1	140	13
SD32324	24.0	26.7	43	1	90	30

PACKAGE OUTLINES & DIMENSIONS



SOD-323		
Dim	Min	Max
A	2.30	2.70
B	1.60	1.80
C	1.20	1.40
D	0.25	0.35
E	0.10	0.15
G	1.05 Type	
H	0.20	0.40

TYPICAL CHARACTERISTICS

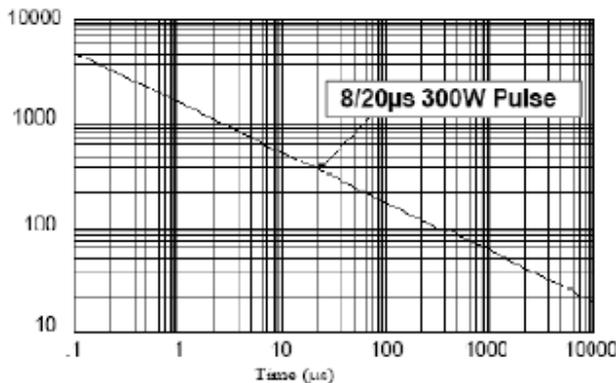


Figure 1. Peak Pulse Power Vs Pulse Time (μ s)

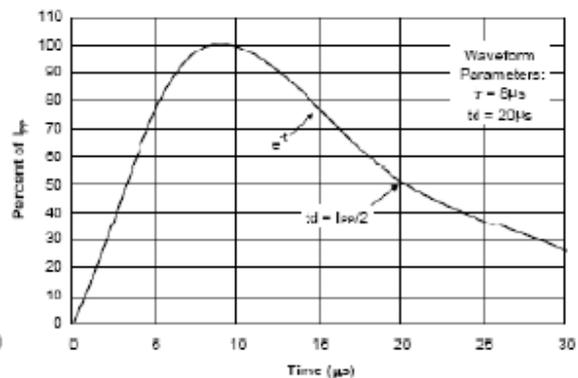


Figure 2. Pulse Wave Form

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