



DESCRIPTION

The SDxxC Series is designed for applications requiring transient overvoltage protection capability. They are intended for use in voltage and ESD sensitive equipment such as computers, printers, business machines, communication systems, medical equipment and other applications. These devices are ideal for situations where board space is at a premium.

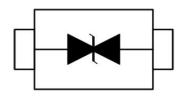
This series has been specifically designed to protect sensitive components which are connected to power, data and transmission lines from overvoltage caused by ESD(electrostatic discharge), CDE (Cable Discharge Events), and EFT (electrical fast transients).

ORDERING INFORMATION

Device: SDxxCPackage: SOD-323Material: Halogen freePacking: Tape & Reel

♦ Quantity per reel: 3,000pcs

PIN CONFIGURATION



FEATURES

- ♦IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- ♦IEC61000-4-4 (EFT) 40A (5/50ηs)
- ♦350 Watts Peak Pulse Power per (tp=8/20µs)
- ♦Protects one I/O line (bidirectional)
- ♦Low clamping voltage
- ♦ Working voltages : 3V,5V,8V,12V,15V,18V,20V,24V,36V
- ♦Low leakage current

MACHANICAL DATA

- ♦SOD-323 package
- ♦Packaging: Tape and Reel
- ♦ High temperature soldering guaranted:260°C/10s
- ♦Reel size: 7 inch
- ♦MSL 1

APPLICATIONS

- ♦ Cell Phone Handsets and Accessories
- ♦Microprocessor based equipment
- ♦ Personal Digital Assistants (PDA's)
- ♦Notebooks, Desktops, and Servers
- ♦Portable Instrumentation
- ♦ Networking and Telecom
- ♦ Serial and Parallel Ports.
- ♦Peripherals

PACKAGE OUTLINE





ABSOLUTE MAXIMUM RATING

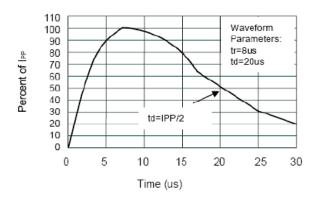
Symbol	Parameter	Value	Units
V _{ESD}	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±15 ±8	kV
P_PP	Peak Pulse Power (8/20μs)	350	W
T _{OPT}	Operating Temperature	-55/+150	°C
T _{STG}	Storage Temperature	-55/+150	°C
T_L	Lead Soldering Temperature	260 (10 sec.)	°C

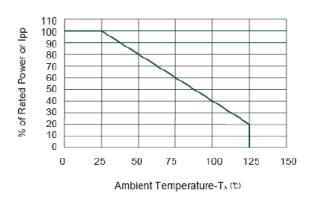
ELECTRICAL CHARACTERISTICS (Tamb=25°C)

PART	DEVICE	V_{RWM}	V_B	I _T	V _C @1A		' c	I _R	C _T
NUMBER	MARKING	(V)	(V)	(mA)	(V)	(\	/)	(µA)	(pF)
NOMBLIX	MARKINO	(max.)	(min.)		(max.)	(max.)	(@A)	(max.)	(max.)
SD03C	2A	3.3	4.0	1	7.5	16.0	20	40	450
SD05C	2B	5.0	6.0	1	9.8	18.0	17	10	200
SD08C	2C	8.0	8.5	1	13.4	24.0	15	2	120
SD12C	2D	12.0	13.3	1	19.0	32.0	11	1	75
SD15C	2J	15.0	16.7	1	24.0	38.0	10	1	68
SD18C	2K	18.0	20.0	1	29.0	45.0	9	1	57
SD20C	2L	20.0	22.3	1	35.0	50.0	8	1	52
SD24C	2H	24.0	26.7	1	43.0	52.0	7	1	50
SD36C	2N	36.0	40.0	1	60.0	75.0	4.5	1	35



ELECTRICAL CHARACTERISTICS CURVE

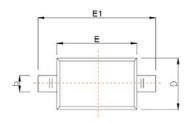


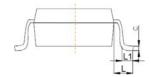


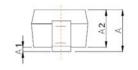
Pulse Waveform

Power Derating Curve

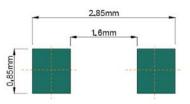
SOD-323 PACKAGE OUTLINE DIMENSIONS







Comphal	Dimensions In Millimeters			
Symbol	Min	Max		
A		1.00		
A1	0.000	0.100		
A2	0.800	0.900		
b	0.250	0.350		
С	0.080	0.150 1.400 1.800		
D	1.200			
E	1.600			
E1	2.500	2.700		
е	1.800	2.040		
L	0.475 REF			
L1	0.250	0.400		
9	0°	8°		



Recommended Pad outline

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