

DESCRIPTION

SD03C 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

◆Package: SOD-323◆Material: Halogen free◆Packing: Tape & Reel

♦ Quantity per reel: 3,000pcs

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
- ♦Low leakage current

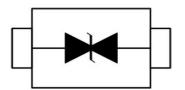
MACHANICAL DATA

- ♦SOD-323 package
- →Flammability Rating: UL 94V-0
- ♦Packaging: Tape and Reel
- ♦ High temperature soldering guaranted:260 °C/10s
- ♦Reel size: 7 inch

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

PIN CONFIGURATION



PACKAGE OUTLINE



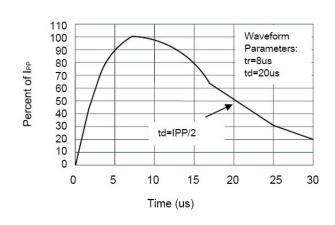


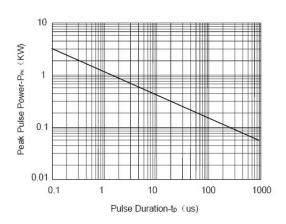
ABSOLUTE MAXIMUM RATING							
Symbol	Parameter	Value	Units				
V _{ESD}	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±15 ±8	kV				
P _{PP}	Peak Pulse Power (8/20μs)	350	W				
T _{OPT}	Operating Temperature	-55/+150	°C				
T _{STG}	Storage Temperature	-55/+150	°C				
TL	Lead Soldering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

ELECTRICAL CHARACTERISTICS (Tamb=25°C)									
PART NUMBER	DEVICE MARKING	V _{RWM} (V)	V _B (V)	I _T (mA)	V _C @1A (V)	V (V		I _R (µA)	C _T (pF)
		(max.)	(min.)		(max.)	(max.)	(@A)	(max.)	(max.)
SD03C	2A	3.3	4.0	1	7.5	10.5	20	40	450



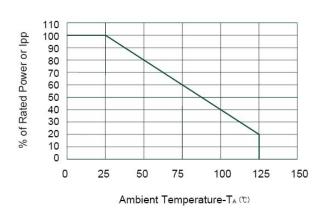
ELECTRICAL CHARACTERISTICS CURVE

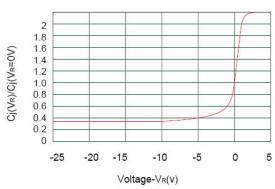




Pulse Waveform

Non-Repetitive Peak Pulse Power vs. Pulse Time



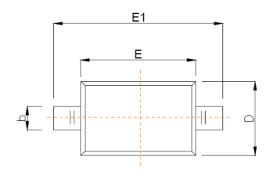


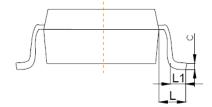
Power Derating Curve

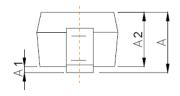
Junction Capacitance vs. Reverse Voltage



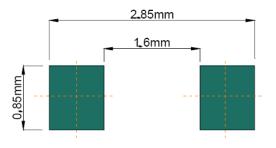
SOD-323 PACKAGE OUTLINE DIMENSIONS







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



Recommended Pad outline

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