

# Unidirectional TVS Diodes

#### **DESCRIPTION**

The SEN0511D3 Series is designed for applications requiring transient overvoltage protection capability. They are intended for use in voltage and ESD sensitive equipment such printers, business computers, 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: SEN0511D3Package: SOD-323Material: Halogen freePacking: 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 (unidirectional)
- ♦ Low clamping voltage
- ♦ Working voltages : 3.3V, 5V,12V,15V,24V,36V
- ♦ Low leakage current

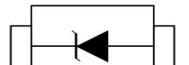
#### **MACHANICAL DATA**

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

#### **PIN CONFIGURATION**



## **PACKAGE OUTLINE**



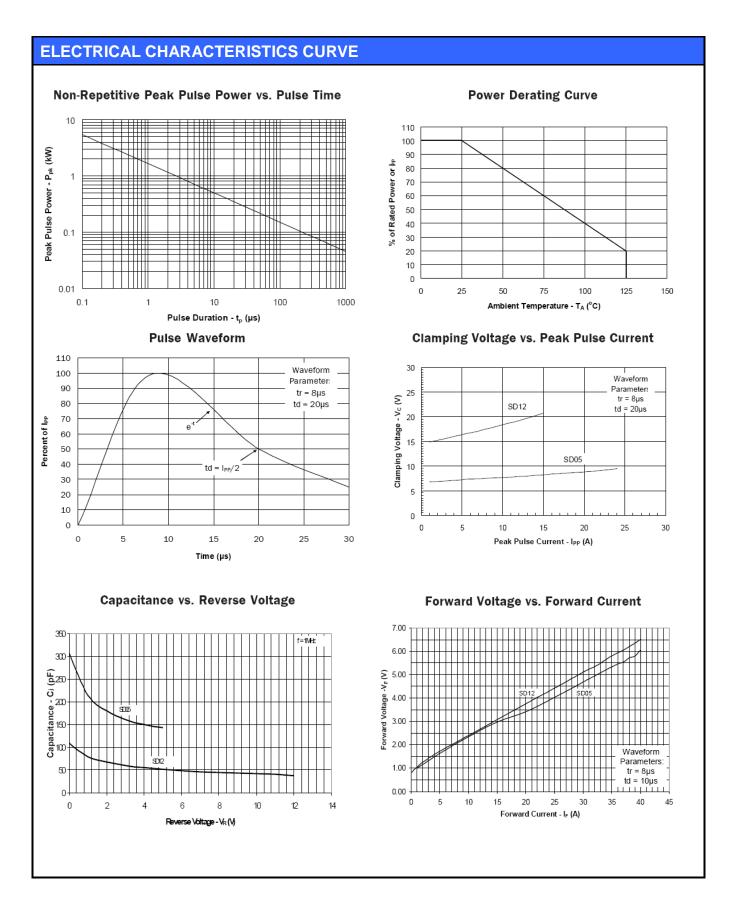


ABSOLUTE MAXIMUM RATING							
Symbol	Parameter	Value	Units				
V <sub>ESD</sub>	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±15 ±8	kV				
P <sub>PP</sub>	Peak Pulse Power (8/20µs)	350	W				
T <sub>OPT</sub>	Operating Temperature	-55/+150	°C				
T <sub>STG</sub>	Storage Temperature	-55/+150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

ELECTRICAL CHARACTERISTICS (Tamb=25°C)									
		$V_{RWM}$	V <sub>B</sub>	Ι <sub>Τ</sub>	V <sub>C</sub> @1A	١	/ <sub>C</sub>	I <sub>R</sub>	Ст
PART	DEVICE	(V)	(V)	(mA)	(V)	('	V)	(µA)	(pF)
NUMBER	MARKING	(max.)	(min.)		(max.)	(max.	(@A)	(max.	(max.)
SEN0511D3	05W	5	6	1	9.8	18	17	10	300

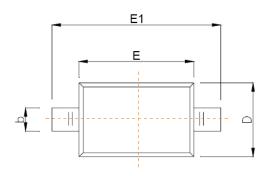
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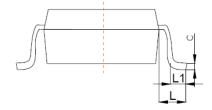


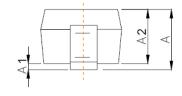




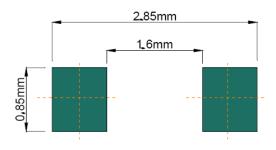
# **SOD-323 PACKAGE OUTLINE DIMENSIONS**







Symbol	Dimensions In Millimeters				
Symbol	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			
Е	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**