















ESD

TVS

S

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	SD03 THRU SD36
Overseas Part Number	SD03 THRU SD36
▶ Equivalent Part Number	SD03 THRU SD36





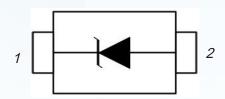
Unidirectional TVS Diodes

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 to 36V Low leakage current

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



MACHANICAL DATA

- SOD-323 package
- Packaging: Tape and Reel
- High temperature soldering guaranted: 260°C/10s

ABSOLUTE MAXIMUM RATING

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



Unidirectional TVS Diodes

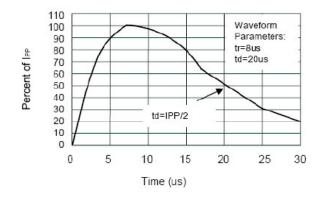
ELECTRICAL CHARACTERISTICS (Tamb=25 °C)

PART NUMBER	DEVICE MARKING	V _{RWM} (V)	V _B (V)	I _T (mA)	V _C @1A (V)	V ₀ (V		l _R (μΑ)	C _T (pF)
NOWBER	W/ CCCCCC	(max.)	(min.)		(max.)	(max.)	(@A)	(max.)	(max.)
SD03	03W	3.3	4	1	6.5	10.5	20	40	450
SD05	05W	5	6	1	9.8	18	17	10	300
SD12	12W	12	13.3	1	19	32	11	1	130
SD15	15W	15	16.7	1	24	38	10	1	120
SD18	18W	18	20.0	1	29	45	9	1	100
SD20	20W	20	22.3	1	35	50	8	1	90
SD24	24W	24	26.7	1	43	52	7	1	80
SD36	36W	36	40	1	60	75	5	1	60

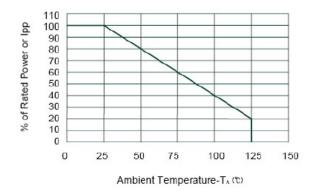
Marking



ELECTRICAL CHARACTERISTICS CURVE





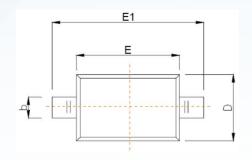


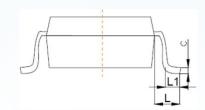
Power Derating Curve

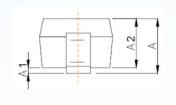


Unidirectional TVS Diodes

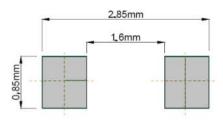
SOD-323 PACKAGE OUTLINE DIMENSIONS







Symbol	Dimensions In Millimeters			
Cyrribor	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		
Ө	0°	8°		



Recommended Pad outline

Ordering information

Order code	Package	Baseqty	Deliverymode
SD03	SOD-323	OD-323 3000 Tape and r	
SD05	SOD-323	3000	Tape and reel
SD12	SOD-323	3000	Tape and reel
SD15	SOD-323	3000	Tape and reel
SD18	SOD-323	3000	Tape and reel
SD20	SOD-323	3000	Tape and reel
SD24	SOD-323	3000	Tape and reel
SD36	SOD-323	3000	Tape and reel



Disclaimer

EVVOSEMI ("EVVO") reserves the right to make corrections, enhancements, improvements, and other changes to its products and services at any time, and to discontinue any product or service without notice.

EVVO warrants the performance of its hardware products to the specifications applicable at the time of sale in accordance with its standard warranty. Testing and other quality control techniques are used as deemed necessary by EVVO to support this warranty. Except where mandated by government requirements, testing of all parameters of each product is not necessarily performed.

Customers should obtain and confirm the latest product information and specifications before final design, purchase, or use. EVVO makes no warranty, representation, or guarantee regarding the suitability of its products for any particular purpose, nor does EVVO assume any liability for application assistance or customer product design. EVVO does not warrant or accept any liability for products that are purchased or used for any unintended or unauthorized application.

EVVO products are not authorized for use as critical components in life support devices or systems without the express written approval of EVVOSEMI.

The EVVO logo and EVVOSEMI are trademarks of EVVOSEMI or its subsidiaries in relevant jurisdictions. EVVO reserves the right to make changes without further notice to any products herein.