EVVOSEMI®

THINK CHANGE DO

ESD TVS MOS 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

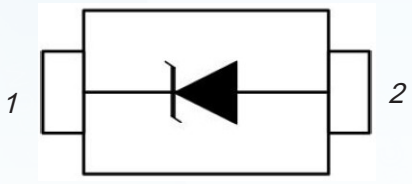


Unidirectional TVS Diodes

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℃/10s

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

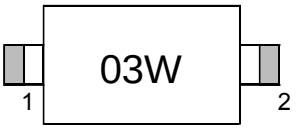
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Unidirectional TVS Diodes

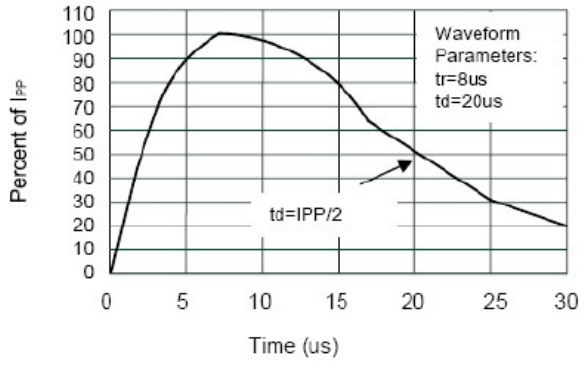
ELECTRICAL CHARACTERISTICS (Tamb=25 °C)

PART NUMBER	DEVICE MARKING	V_{RWM} (V) (max.)	V_B (V) (min.)	I_T (mA)	V_C@1A (V) (max.)	V_C (V) (max.)	(@A)	I_R (μA) (max.)	C_T (pF) (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

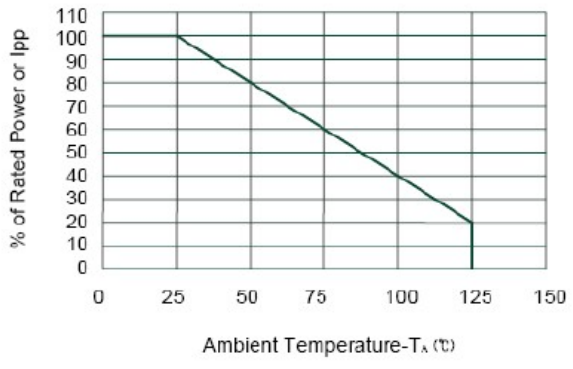
Marking



ELECTRICAL CHARACTERISTICS CURVE



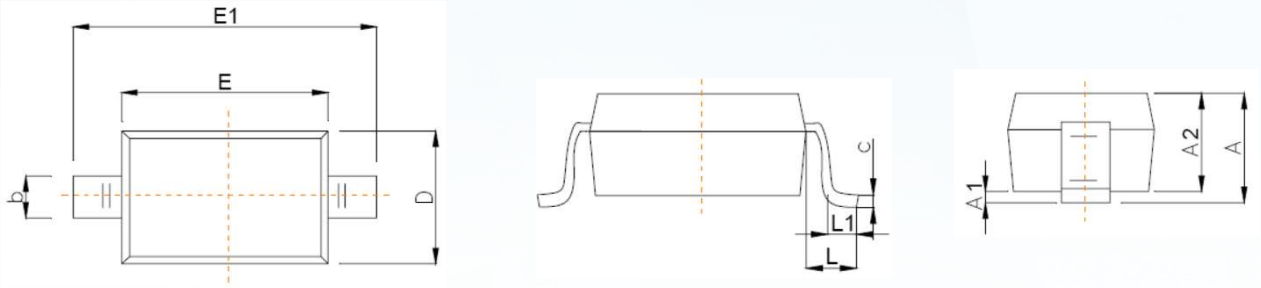
Pulse Waveform



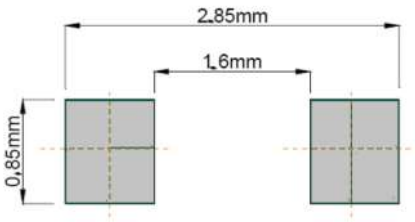
Power Derating Curve

Unidirectional TVS Diodes

SOD-323 PACKAGE OUTLINE DIMENSIONS



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



Recommended Pad outline

Ordering information

Order code	Package	Baseqty	Deliverymode
SD03	SOD-323	3000	Tape and reel
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

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Global Electronic Components Distributor

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EVVOSEMI:

1N4148WT 2SC5196 GBJ3508 MMBD7000L P6SMB33A SMBJ5.0A TIP35C W01 2SA1695 GBU406 XL1509-5.0-EV SS8550 2SC3264 KBL608 KBPC1010 TIP127 SN74LVC1G02DBVR-EV SS36F TL431 MMBT5401 1.5KE15A SMCJ36A SS210 DS18B20A20 MMBTA92 SN74LVC1G08DBVR-EV AMS1117-ADJ MJD122 TPD1E05U06DPYR-EV USBLC6-4SC6-EV