UMW SDxx

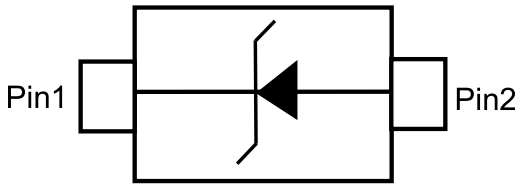
1.Features

- EC61000-4-2(ESD)±30kV±30kV(air),(contact)
- IEC61000-4-4(EFT)40A(5/50ns)
- 350 Watts Peak Pulse Power per (tp=8/20us)
- Protects one I/O line (unidirectional)
- Low clamping voltage
- Working voltages : 3.3V to 36V
- Low leakage current

2.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

3.Pinning information



SOD-323

4.Absolute Maximum Ratings T_A= 25°C

Parameter	Symbol	Maximum	Units
ESD per IEC 61000-4-2 (Air)	V_{ESD}	±30	kV
ESD per IEC 61000-4-2(Contact)		±30	kV
Peak Pulse Power (8/20us)	P_{PP}	350	W
Junction Temperature	T_{OPT}	-55 to 150	°C
Storage Temperature	T_{STG}	-55 to 150	°C
Lead Soldering Temperature	T_L	260(10sec.)	°C

5.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	5U	5	6	1	9.8	18	17	40	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

6.Typical characteristic

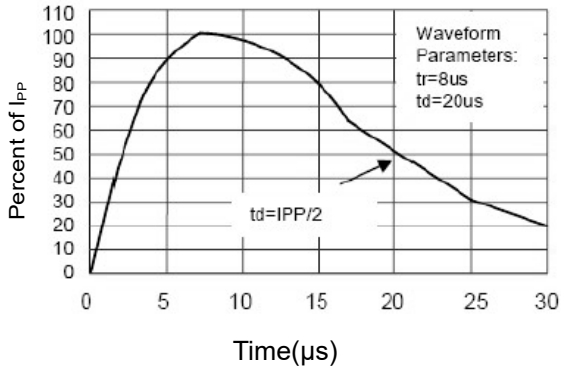


Figure 1: Pulse Waveform

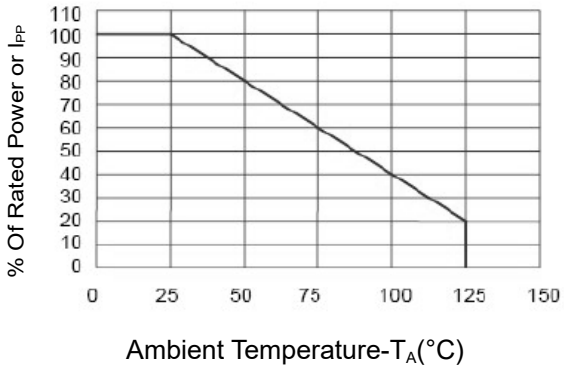
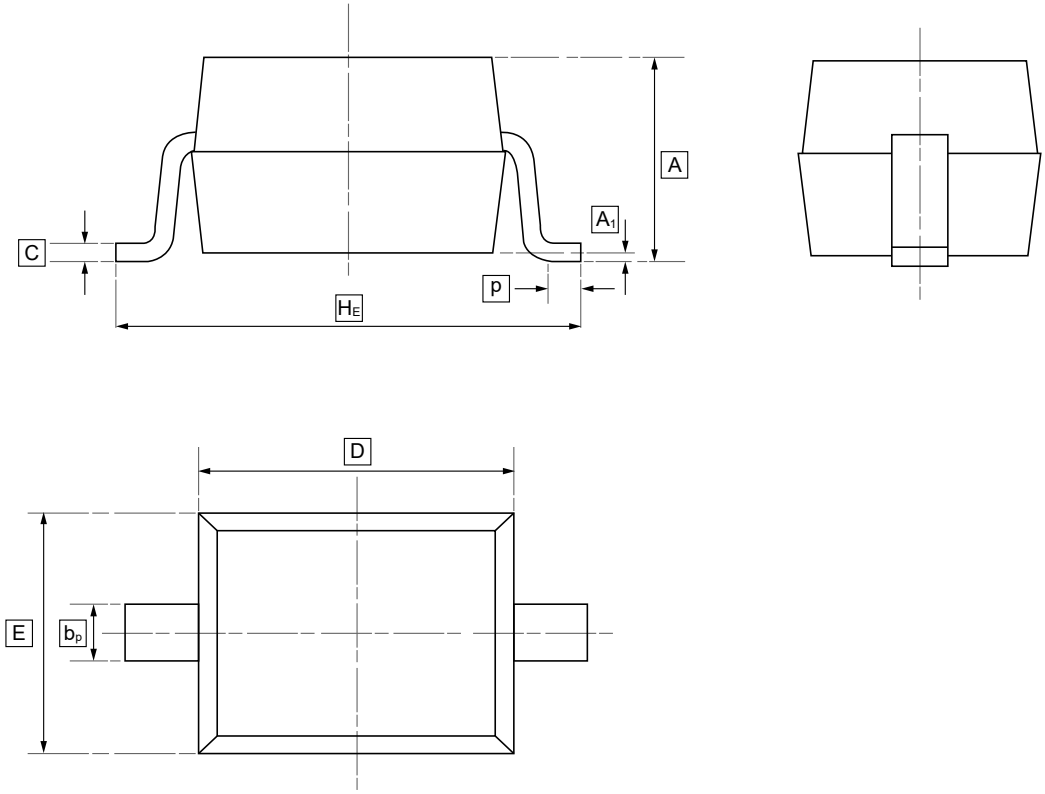


Figure 2: Power Derating Curve

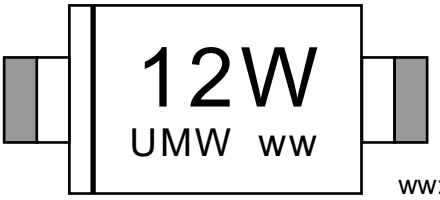
7.SOD-323 Package Outline Dimensions



DIMENSIONS (mm are the original dimensions)

Symbol	A	b_p	C	D	E	H_E	A_1	p
Min	0.80	0.25	0.10	1.50	1.15	2.30	0.01	0.20
Max	1.20	0.40	0.15	1.80	1.35	2.80	0.10	0.50

8.Ordering information



ww: Week Code

Order Code	Marking	Package	Base QTY	Delivery Mode
UMW SD03	03W	SOD-323	3000	Tape and reel
UMW SD05	05W	SOD-323	3000	Tape and reel
UMW SD12	12W	SOD-323	3000	Tape and reel
UMW SD15	15W	SOD-323	3000	Tape and reel
UMW SD18	18W	SOD-323	3000	Tape and reel
UMW SD20	20W	SOD-323	3000	Tape and reel
UMW SD24	24W	SOD-323	3000	Tape and reel
UMW SD36	36W	SOD-323	3000	Tape and reel



9.Disclaimer

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