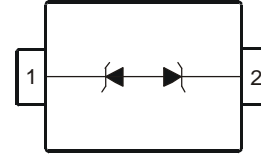


**Features**

- Provides ESD Protection per IEC 61000-4-2 Standard: Air – ±30kV, Contact – ±30kV
- 1 Channel of ESD Protection
- Low Channel Input Capacitance
- Typically Used in Cellular Handsets, Portable Electronics, Communication Systems, Computers and Peripherals



Device Schematic

**Maximum Ratings** @T<sub>A</sub> = 25°C unless otherwise specified

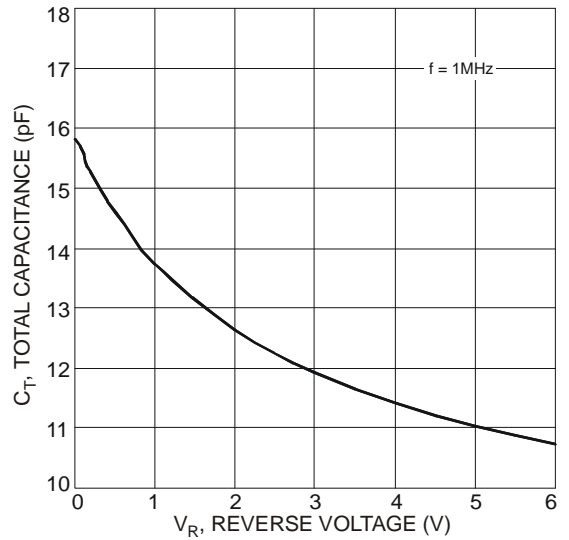
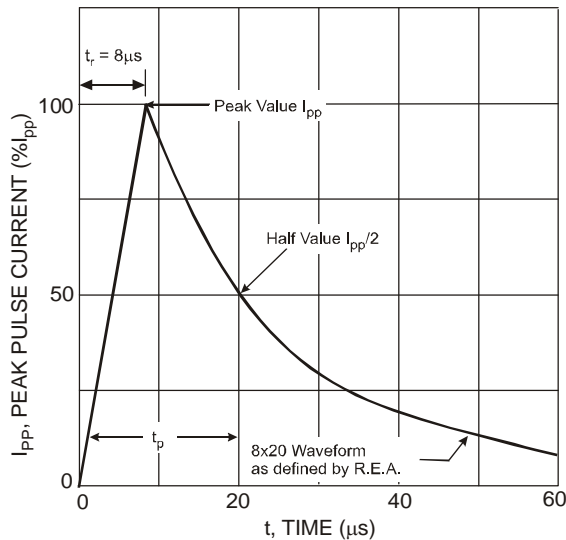
Characteristic	Symbol	Value	Unit	Conditions
Peak Pulse Power Dissipation	P <sub>PP</sub>	84	W	8/20μs, Per Fig. 1
Peak Pulse Current	I <sub>PP</sub>	6	A	8/20μs, Per Fig. 1
ESD Protection – Contact Discharge	V <sub>ESD_Contact</sub>	±30	kV	Standard IEC 61000-4-2
ESD Protection – Air Discharge	V <sub>ESD_Air</sub>	±30	kV	Standard IEC 61000-4-2

## Thermal Characteristics

Characteristic	Symbol	Value	Unit
Package Power Dissipation	$P_D$	200	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	625	$^{\circ}\text{C}/\text{W}$
Operating and Storage Temperature Range	$T_J, T_{STG}$	-65 to +150	$^{\circ}\text{C}$

## Electrical Characteristics @ $T_A = 25^{\circ}\text{C}$ unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Conditions
Reverse Standoff Voltage	$V_{RWM}$			5	V	
Channel Leakage Current	$I_{RM}$		10	100	nA	$V_{RWM} = 5\text{V}$
Clamping Voltage, Positive Transients	$V_{CL}$		7.0 8.7 10.5 11.5	9.0 10.7 12.0 14.0	V	$I_{PP} = 1\text{A}, t_p = 8/20\mu\text{S}$ $I_{PP} = 3\text{A}, t_p = 8/20\mu\text{S}$ $I_{PP} = 5\text{A}, t_p = 8/20\mu\text{S}$ $I_{PP} = 6\text{A}, t_p = 8/20\mu\text{S}$
Breakdown Voltage	$V_{BR}$	6	7	8	V	$I_R = 1\text{mA}$
Differential Resistance	$R_{DIF}$		0.2		$\Omega$	$I_R = 1\text{A}, t_p = 8/20\mu\text{S}$
Channel Input Capacitance	$C_T$		15	20	pF	$V_R = 0\text{V}, f = 1\text{MHz}$



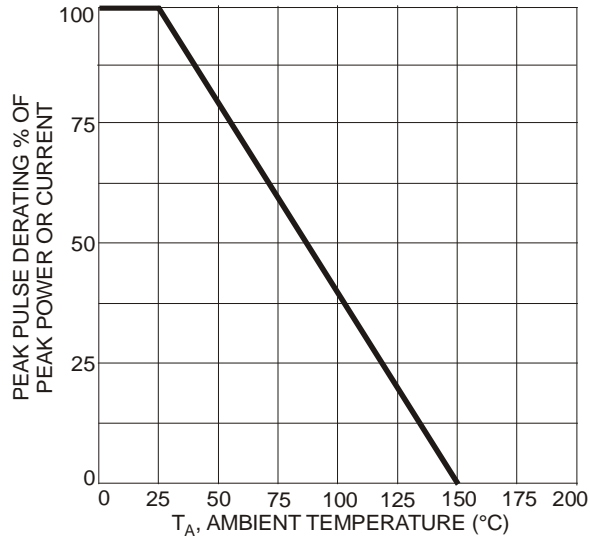


Fig. 3 Pulse Derating Curve

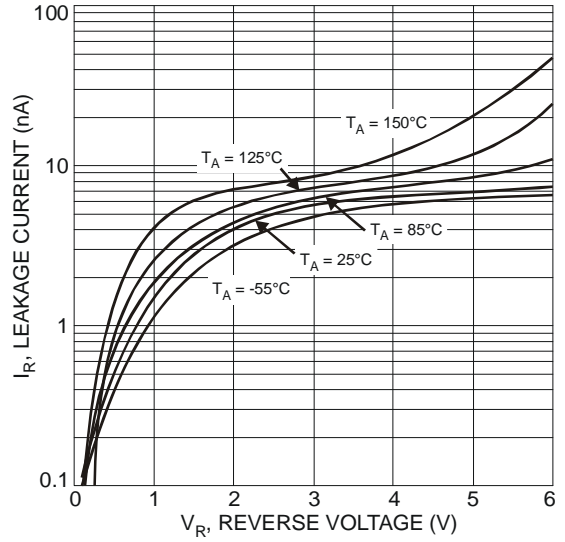
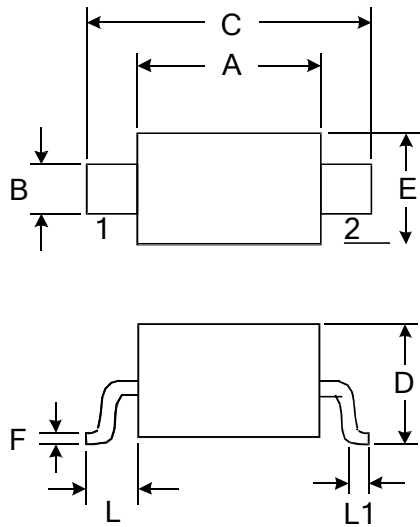


Fig. 4 Typical Reverse Characteristics

Outline Drawing – SOD-323



DIMENSIONS				
SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	1.600	1.800	0.063	0.071
B	0.250	0.350	0.010	0.014
C	2.500	2.700	0.098	0.106
D		1.000		0.039
E	1.200	1.400	0.047	0.055
F	0.080	0.150	0.003	0.006
L	0.475 REF		0.019REF	
L1	0.250	0.400	0.010	0.016
H	0.000	0.100	0.000	0.004

Marking



Ordering information

Order code	Package	Baseqty	Deliverymode
UMW D5V0L1B2WS-7	SOD-323	3000	Tape and reel

单击下面可查看定价，库存，交付和生命周期等信息

[>>UMW\(友台半导体\)](#)