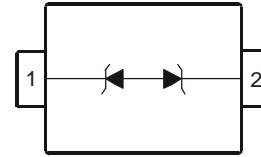


Features

- 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_A = 25°C unless otherwise specified

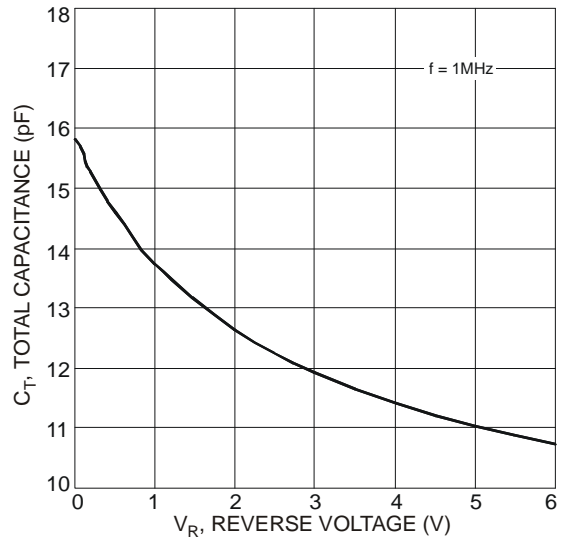
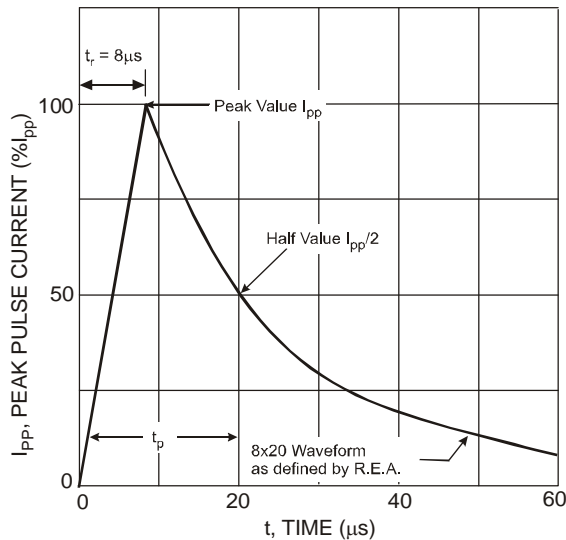
Characteristic	Symbol	Value	Unit	Conditions
Peak Pulse Power Dissipation	P _{PP}	84	W	8/20μs, Per Fig. 1
Peak Pulse Current	I _{PP}	6	A	8/20μs, Per Fig. 1
ESD Protection – Contact Discharge	V _{ESD_Contact}	±30	kV	Standard IEC 61000-4-2
ESD Protection – Air Discharge	V _{ESD_Air}	±30	kV	Standard IEC 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	$^{\circ}C/W$
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +150	$^{\circ}C$

Electrical Characteristics @ $T_A = 25^{\circ}C$ 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	$V_{RWM} = 5V$
Clamping Voltage, Positive Transients	V_{CL}	6	7.0	9.0	V	$I_{PP} = 1A, t_p = 8/20\mu S$
			8.7	10.7		$I_{PP} = 3A, t_p = 8/20\mu S$
			10.5	12.0		$I_{PP} = 5A, t_p = 8/20\mu S$
			11.5	14.0		$I_{PP} = 6A, t_p = 8/20\mu S$
Breakdown Voltage	V_{BR}	6	7	8	V	$I_R = 1mA$
Differential Resistance	R_{DIF}		0.2		Ω	$I_R = 1A, t_p = 8/20\mu S$
Channel Input Capacitance	C_T		15	20	pF	$V_R = 0V, f = 1MHz$



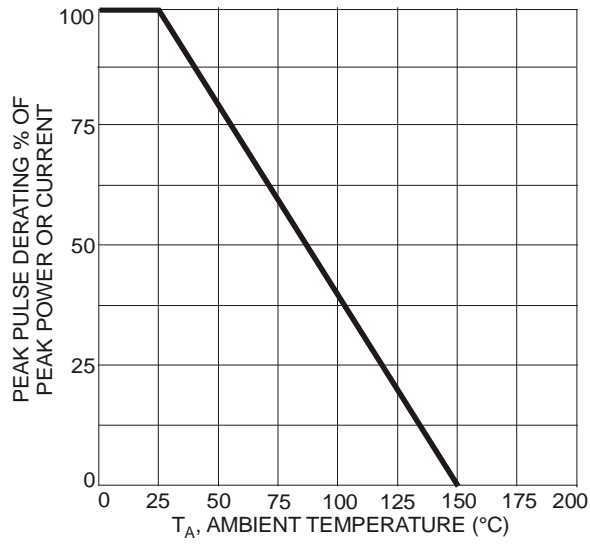


Fig. 3 Pulse Derating Curve

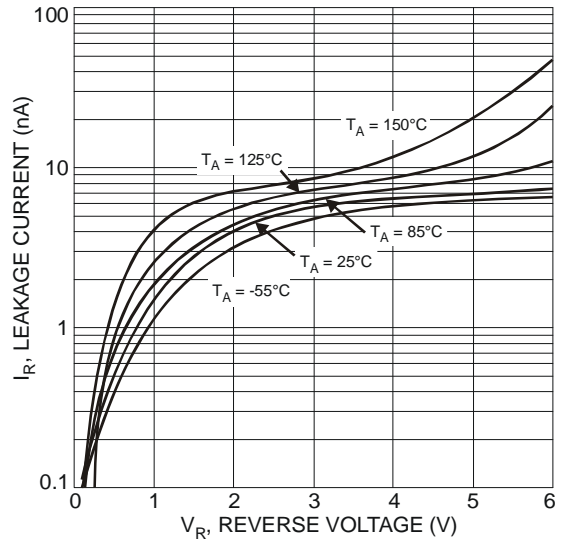
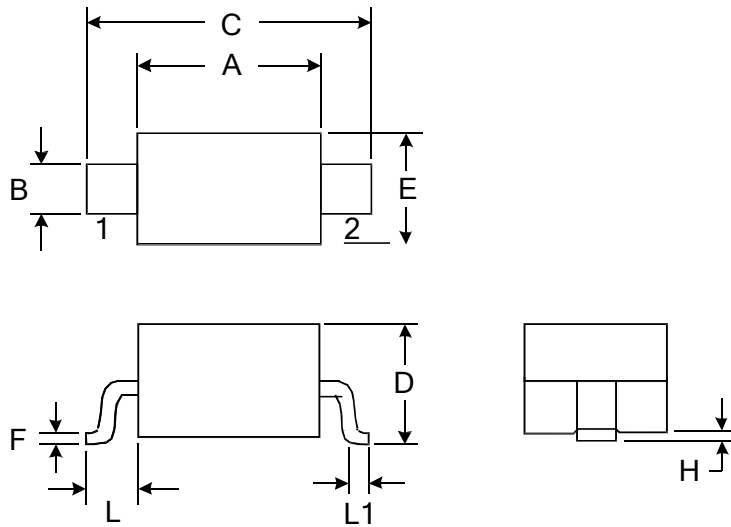


Fig. 4 Typical Reverse Characteristics

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

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[SMBJ33CATR](#) [SMBJ6.5A](#) [SMBJ8.0A](#) [ESD101-B1-02ELS E6327](#) [ESD112-B1-02EL E6327](#) [ESD7451N2T5G](#) [19180-510](#) [CPDT-5V0USP-](#)
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[ESD200-B1-CSP0201 E6327](#) [SM12-7](#) [CEN955 W/DATA](#) [VESD12A1A-HD1-GS08](#) [CPDQC5V0-HF](#) [D1213A-01LP4-7B](#) [ESD101-B1-02EL](#)
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[P6KE13CA](#) [P6KE43CA](#) [P6KE6.8CA](#) [P6KE8.2](#) [P6SMBJ20CA](#) [JANTX1N6072A](#) [SR2835ESKG](#) [SA90CA](#)