

### Features

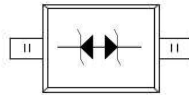
180W peak pulse power (8/20 $\mu$ s)  
 Protects one data or power line  
 Ultra low leakage: nA level  
 Operating voltage: 24V  
 Ultra low clamping voltage  
 Complies with following standards:  
 – IEC 61000-4-2 (ESD) immunity test  
     Air discharge:  $\pm 20$ kV  
     Contact discharge:  $\pm 15$ kV  
 – IEC61000-4-4 (EFT) 40A (5/50ns)  
 RoHS Compliant

### Mechanical Characteristics

Package: SOD-323  
 Lead Finish: Matte Tin  
 Case Material: "Green" Molding Compound.  
 UL Flammability Classification Rating 94V-0  
 Moisture Sensitivity: Level 3 per J-STD-020  
 Terminal Connections: See Diagram Below

### Applications

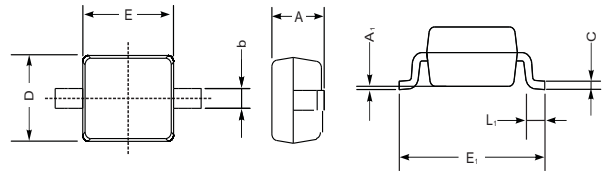
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### Ordering information

Order code	Package	Making
PESD24VL1BA	SOD-323	AF

### SOD323



UNIT		A	C	D	E	E <sub>1</sub>	b	L <sub>1</sub>	A <sub>1</sub>
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—
mil	max	43	5.9	55	70	108	16	16	8
	min	32	3.1	47	63	100	9.8	7.9	—

### Absolute Maximum Ratings (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
ESD per IEC 61000-4-2 (Air)	VESD	$\pm 20$	kV
ESD per IEC 61000-4-2 (Contact)		$\pm 15$	
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Tstg	-55 to +150	°C

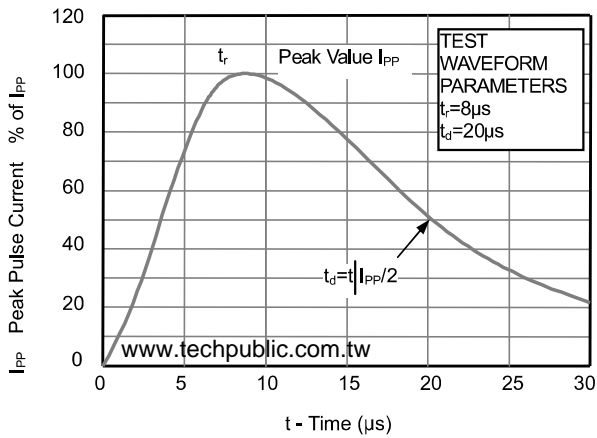
# PESD24VL1BA

Electrical Characteristics (TA=25°C unless otherwise specified)

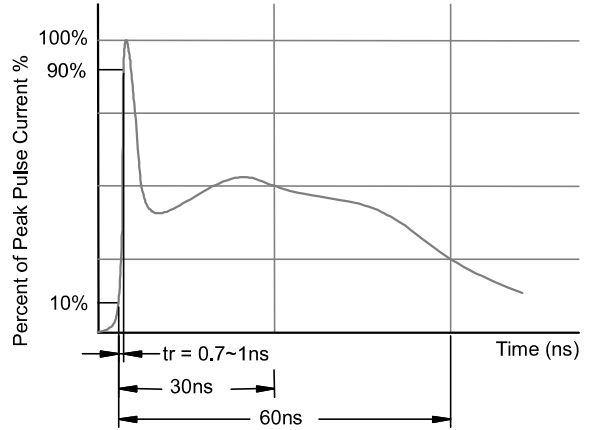
Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Working Voltage	VRWM			24	V	
Breakdown Voltage	VBR	26			V	IT = 1mA
Reverse Leakage Current	IR			0.1	μA	VRWM = 24V
Clamping Voltage	VC		33		V	I <sub>PP</sub> = 1A (8 x 20μs pulse)
Clamping Voltage	VC			60	V	I <sub>PP</sub> = 3.5A (8 x 20μs pulse)
Peak Pulse Current	I <sub>PP</sub>			3.5	A	tp=8/20μs
Junction Capacitance	CJ		10		pF	VR = 0V, f = 1MHz

## RATING AND CHARACTERISTIC CURVES ( PESD24VL1BA )

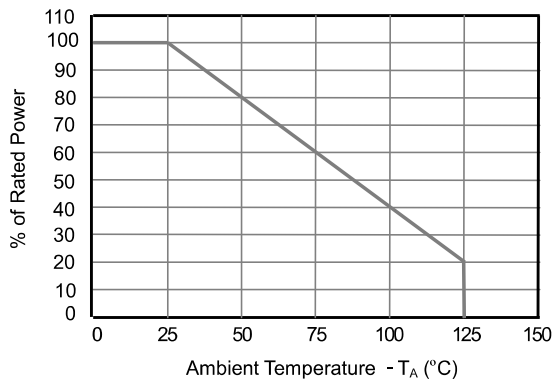
**ig1. 8/20 $\mu$ s Pulse Waveform**



**Fig2. ESD Pulse Waveform (according to IEC 61000-4-2)**



**ig3 Power Derating Curve**



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