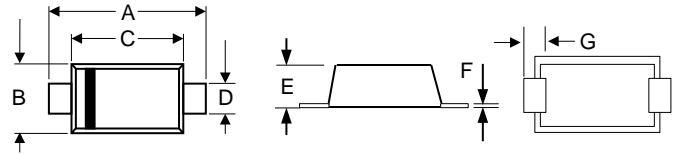


### Features

- \* Low clamping voltage
- \* Low leakage
- \* Bi-directional for ESD protection



**RoHS**  
COMPLIANT



SOD-323F				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.091	0.110	2.30	2.80
B	0.045	0.053	1.15	1.35
C	0.063	0.071	1.60	1.80
D	0.010	0.016	0.25	0.40
E	0.031	0.043	0.80	1.10
F	0.004	0.006	0.10	0.15
G	0.016	0.024	0.41	0.61

### Maximum Ratings (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Pulse Power (t <sub>p</sub> = 8/20 μs)	P <sub>pk</sub>	350	W
ESD Voltage (HRB Waveform per IEC61000-4-2)	V <sub>ESD</sub>	30	KV
Operating Junction Temperature	T <sub>j</sub>	- 55 to + 125	°C
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 150	°C

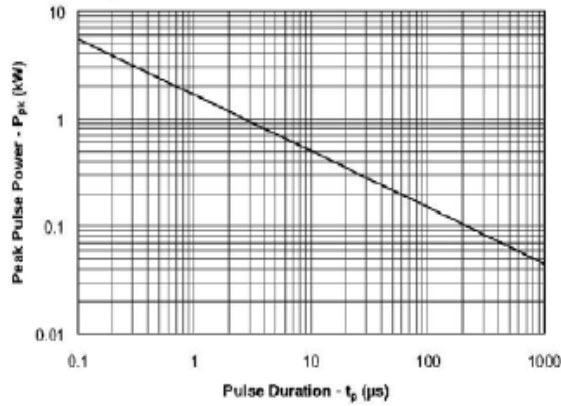
### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Type	Reverse Stand-off Voltage	Reverse Current	Breakdown Voltage		Clamping Voltage <sup>1)</sup>				Peak Pulse Current	Capacitance	
	V <sub>RWM</sub>	I <sub>R</sub> at V <sub>RWM</sub>	V <sub>BR</sub>	at I <sub>T</sub>	V <sub>C</sub>	at I <sub>PP</sub>	V <sub>C</sub>	at I <sub>PP</sub>	I <sub>PP</sub>	C <sub>j</sub>	at f
	Max. (V)	Max. (μA)	Min. (V)	mA	Max. (V)	A	Max. (V)	A	A	Max. (pF)	MHz
ESD3B5V0WS	5	10	6	1	9.8	5	14.5	24	24	200	1
ESD3B12WS	12	1	13.3	1	19	5	24	15	15	100	1
ESD3B15WS	15	1	16.7	1	24	5	29	12	12	75	1
ESD3B24WS	24	1	26.7	1	40	5	44	8	8	50	1

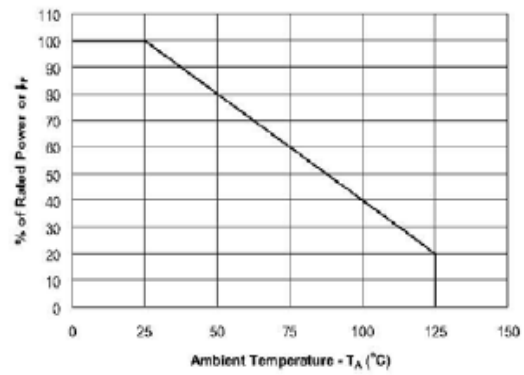
Note: 1) t<sub>p</sub> = 8/20 μs

### Ratings and Characteristic Curves

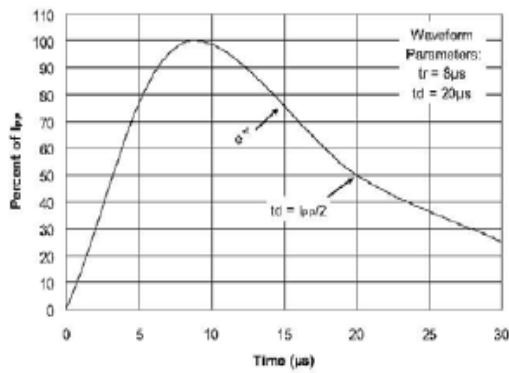
**Non-Repetitive Peak Pulse Power vs. Pulse Time**



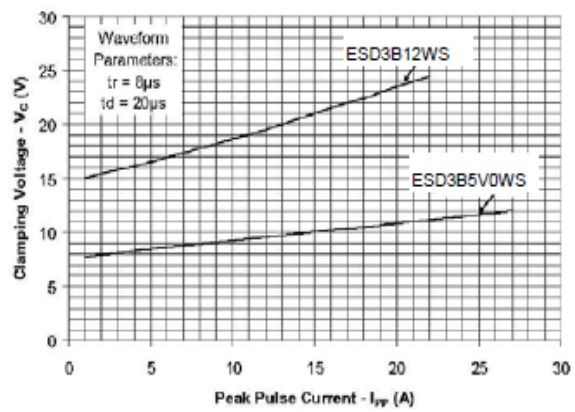
**Power Derating Curve**



**Pulse Waveform**



**Clamping Voltage vs. Peak Pulse Current**





## ESD3B...WS Series

*Transient Voltage Suppressors*

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### Ordering Information

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Part No.	Package	Packing Code	Packing
ESD3B...WS Series	SOD-323F	R30	3000pcs/Reel

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