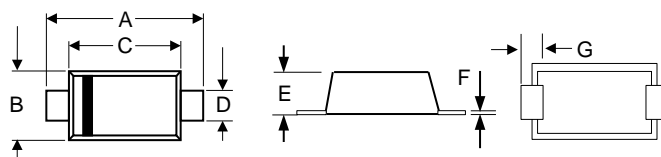


Features

- * Low clamping voltage
- * Low leakage
- * 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_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Pulse Power (tp = 8/20 μs)	P _{pk}	350	W
Peak Pulse Current (tp = 8/20 μs)	I _{PP}	24	A
ESD Voltage (HRB Waveform per IEC61000-4-2)	V _{PP}	30	KV
Operating Junction Temperature	T _j	- 55 to + 125	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

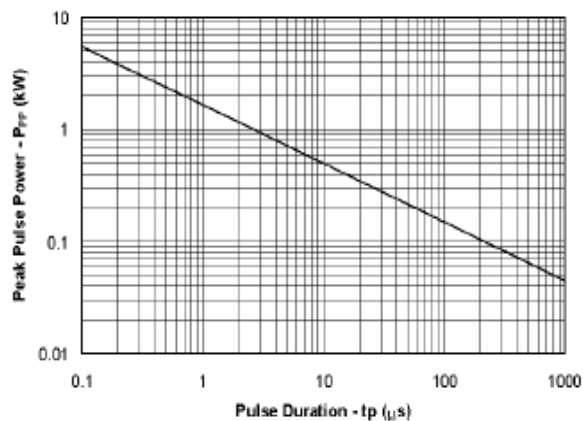
Electrical Characteristics (T_A=25°C unless otherwise noted)

Type	Marking Code	Reverse Stand-off Voltage	Reverse Current	Breakdown Voltage		Clamping Voltage ¹⁾				Capacitance	
		V _{RWM}	I _R at V _{RWM}	V _{BR}	at I _T	V _C	at I _{PP}	V _C	at I _{PP}	C _j	at f
		Max. (V)	Max.(μA)	Min.(V)	mA	Max.(V)	A	Max.(V)	A	Max.(pF)	MHz
ESD3Z5V0	5-	5	10	6	1	9.8	5	14.5	24	350	1
ESD3Z12	12-	12	1	13.3	1	19	5	25	15	150	1

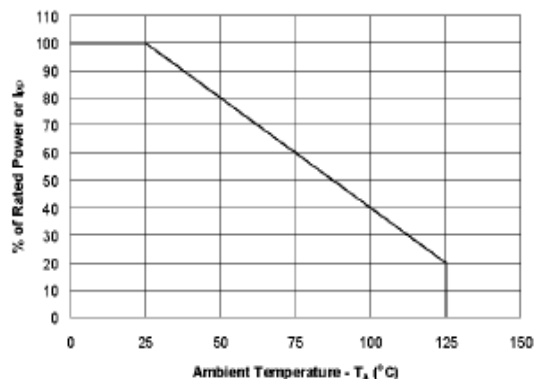
Note: 1) tp = 8/20 μs

Ratings and Characteristic Curves

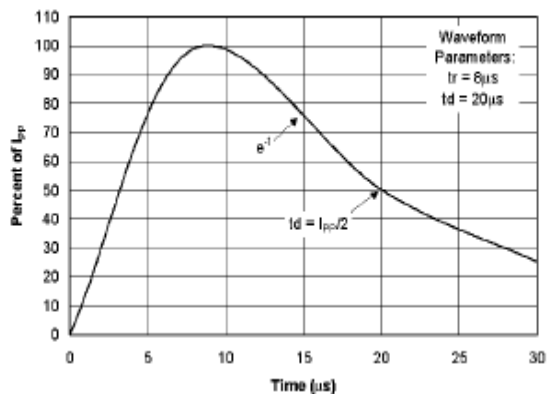
Non-Repetitive Peak Pulse Power vs. Pulse Time



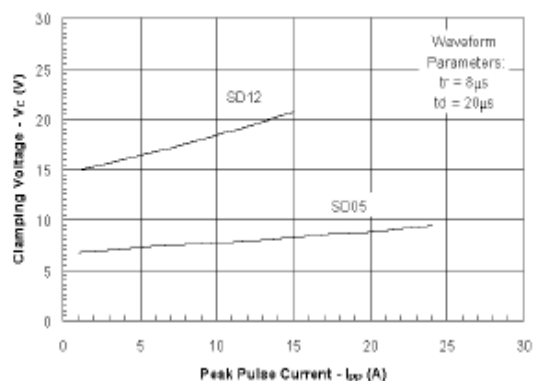
Power Derating Curve



Pulse Waveform



Clamping Voltage vs. Peak Pulse Current





ESD3Z5V0,ESD3Z12

Transient Voltage Suppressors

Ordering Information

Part No.	Package	Packing Code	Packing
ESD3Z5V0,ESD3Z12	SOD-323F	R30	3000pcs/Reel

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