

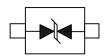
Features

- 320Watts peak pulse power (tp = 8/20µs)
- Bidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- IEC 61000-4-2 ±30kV contact ±30kV air
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 10A (8/20µs)

SES15VD323-2B



SOD-323



Schematic Diagram

Applications

- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Pagers Peripherals

Mechanical Data

- SOD323 package
- Molding compound flammability rating: UL 94V-0

1

- Packaging: Tape and Reel
- RoHS/WEEE Compliant

Absolute Maximum Rating

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Rating	Symbol	Value	Units		
Peak Pulse Power (t _p =8/20µs)	P _{PP}	320	Watts		
Peak Pulse Current (t _p =8/20µs) (note1)	I _{pp}	10	А		
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V _{ESD}	30 30	kV		
Lead Soldering Temperature	TL	260(10seconds)	°C		
Junction Temperature	TJ	-55 to + 150	°C		
Storage Temperature	T _{stg}	-55 to + 150	$^{\circ}$		

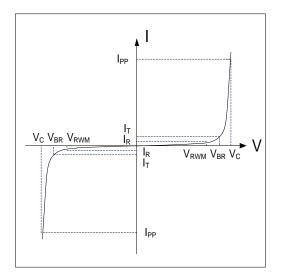


Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{RWM}		-15		15	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	16.7			V
Reverse Leakage Current	I _R	V _{RWM} =15V,T=25℃			0.5	uA
Clamping Voltage	V_{C}	I _{PP} =10A,t _p =8/20μs			32	V
Junction Capacitance	C _j	V _R = 0V, f = 1MHz		20		pF

Electrical Parameters (TA = 25°C unless otherwise noted)

Symbol	Parameter
IPP	Maximum Reverse Peak Pulse Current
Vc Clamping Voltage @ IPP	
VRWM	Working Peak Reverse Voltage
IR	Maximum Reverse Leakage Current @ VRWM
V _{BR}	Breakdown Voltage @ I _T
lτ	Test Current



Note:. $8/20\mu s$ pulse waveform.



Typical Characteristics

Figure 1: Peak Pulse Power vs. Pulse Time

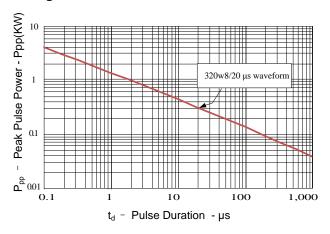


Figure 2: Power Derating Curve

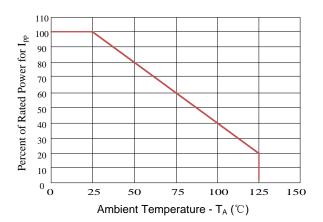


Figure3: Pulse Waveform

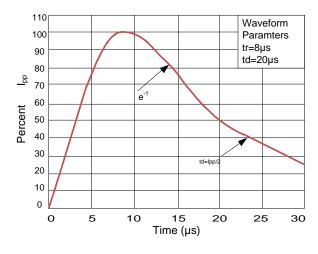
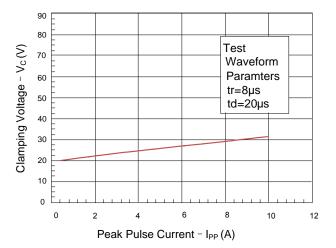


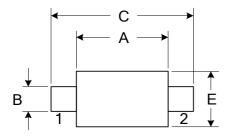
Figure 4: Clamping Voltage vs.lpp

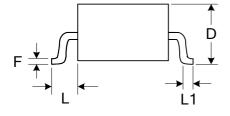


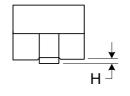
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Outline Drawing - SOD323







DIMENSIONS					
SYMBOL	MILLIMETER		INCHES		
OTWIDOL	MIN	MAX	MIN	MAX	
Α	1.600	1.800	0.063	0.071	
В	0.250	0.350	0.010	0.014	
С	2.500	2.700	0.098	0.106	
D		1.000		0.039	
Е	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	
Н	0.000	0.100	0.000	0.004	

Marking



Ordering information

Order code	Package	Base qty	Delivery mode
SES15VD323-2B	SOD323	3000	Tape and reel



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