

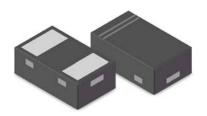
Features

- 250 Watts peak pulse power (tp = 8/20µs)
- DFN1006 package
- Bidirectional configurations
- Protects one I/O port
- Low clamping voltage
- Low Leakage current
- ESD-immunity acc. IEC 61000-4-2 ±30KV contact ±30KV air
- IEC 61000-4-4 (EFT) 40A (5/50ns)

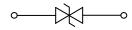
Applications

- Cell Phone
- PDA
- Notebook
- Digital Cameras
- Portable Instrumentation
- Audio and video equipment

SES18VD1006-2B



DFN1006



Schematic Diagram

Absolute Maximum Ratings

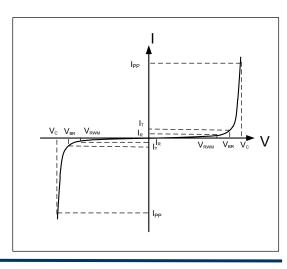
(T_A =25°C, Unless otherwise specified.)

Parameter	Symbol	Value	Unit
Peak Pulse Power (T _P =8/20µS)	P _{PP}	250	W
Peak Pulse Current (t₂ = 8/20µS)	I _{PP}	6.5	Α
Junction Temperature	TJ	-55 to +125	$^{\circ}$
Storage temperature	T _{STG}	-55 to +150	$^{\circ}$

Electrical Characteristics

(T_A=25°C, Unless otherwise specified.)

(1A-23 C, Officas officiwise specified.)			
Symbol	Parameter		
\mathbf{I}_{PP}	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ IPP		
V_{RWM}	Working Peak Reverse Voltage		
I_R	Maximum Reverse Leakage Current @ V _{RWM}		
V_{BR}	Breakdown Voltage @ Ir		
I_{T}	Test Current		





Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V_{RWM}				18	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	19.5			V
Reverse Leakage Current	I _R	V _R =18V			0.5	μA
Clamping Voltage	Vc	I _{PP} =6.5Α,T _P =8/20μS		35	38	V
Junction Capacitance	CJ	V _R =0V,f=1MHz		17		pF

Typical Characteristic Curves

Fig.1 Peak Pulse Power Rating Curve

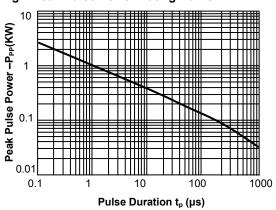


Fig.3 Pulse Waveform-8/20µs

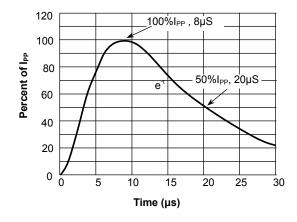


Fig.2 Pulse Derating Curve

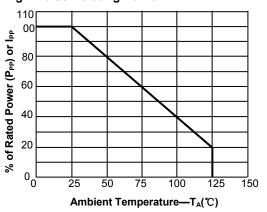
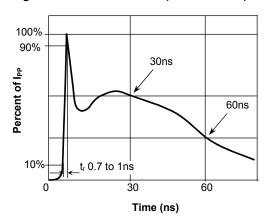
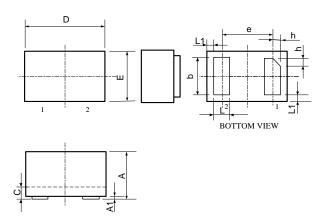


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)





Product Dimensions



SYMBOL	MILIMETER		
	MIN	NOM	MA
Α	0.45	0.50	0.55
A1	0.00	0.02	0.05
b	0.45	0.50	0.55
С	0.12	0.15	0.18
D	0.95	1.00	1.05
е	0.65BSC		
Е	0.55	0.60	0.65
L	0.20	0.25	0.30
L1	0.05REF		
h	0.07	0.12	0.17

Order Information

Device	Package	Marking	Carrier	Quantity	HSF Status
SES18VD1006-2B	DFN1006	DF	Tape & Reel	10000pcs / Reel	RoHS compliant

Revision history

Date	Revision	Description of changes
12-March-2018	Α0	First issue



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