

Features

- 70 Watts peak pulse power (tp = 8/20 µs)
- DFN1006 package
- Bidirectional configurations
- Protects one I/O port
- Low clamping voltage
- Low Leakage current
- Protection data/power line to: IEC 61000-4-2 ±30kV contact ±30kV air IEC 61000-4-4 (EFT) 40A (5/50ns)

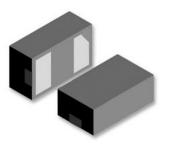
IEC 61000-4-5 (Lightning) 7A (8/20µs)

■ RoHS compliant

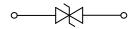
Applications

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

SES7VD1006M-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}	70	W
Peak Pulse Current (t₂ = 8/20µS)	I _{PP}	7	Α
Junction Temperature	TJ	-55 to +125	$^{\circ}\!\mathbb{C}$
Storage temperature	T _{STG}	-55 to +150	$^{\circ}\!\mathbb{C}$

Electrical Characteristics

 $(T_A=25^{\circ}C, Unless otherwise specified.)$

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V_{RWM}				7	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	7.2			V
Reverse Leakage Current	I _R	V _R =7V			1	μA
Clamping Voltage	V _C	I _{PP} =7A ,T _P =8/20μS		10		V
Junction Capacitance	CJ	V _R =0V,f=1MHz		15		pF



Typical Characteristic Curves

Fig.1 Peak Pulse Power Rating Curve

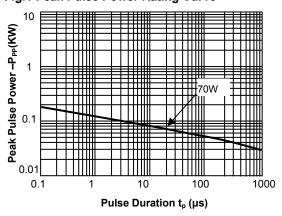


Fig.2 Pulse Derating Curve

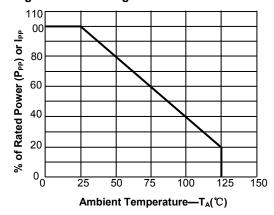


Fig.3 Pulse Waveform-8/20µs

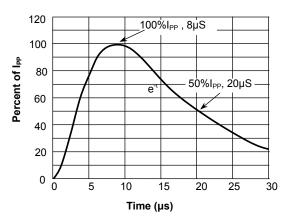
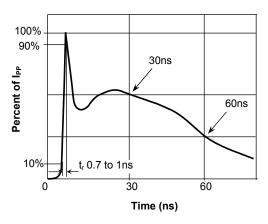
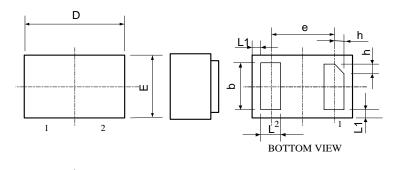


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)



Product Dimensions

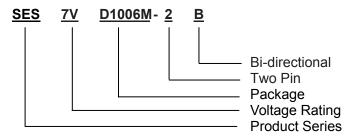


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Symbol	milimeter			
Symbol	min	nom	max	
Α	0.45	0.50	0.55	
A1	0	0.02	0.05	
b	0.45	0.50	0.55	
С	0.12	0.15	0.18	
D	0.95	1.00	1.05	
е	0.65BSC			
Е	0.55	0.60	0.65	
L	0.20	0.25	0.30	
L1	0.05REF			
h	0.07	0.12	0.17	



Part Number System



Marking



Order Information

Device	Package	Marking	Carrier	Quantity	HSF Status
SES7VD1006M-2B	DFN1006	C7	Tape & Reel	10,000pcs / Reel	RoHS compliant

Revision history

Date	Revision	Description of changes
22-March-2017	A0	First issue



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