

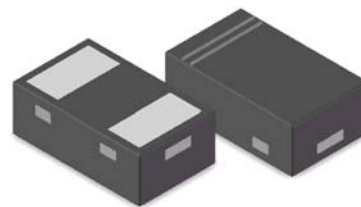
Features

- 360 Watts peak pulse power ($t_p = 8/20\mu s$)
- DFN1006 package
- Bidirectional configurations
- Protects one I/O port
- Low clamping voltage
- Low Leakage current
- ESD-immunity acc. IEC 61000-4-2 $\pm 30KV$ contact $\pm 30KV$ air
- IEC 61000-4-4 (EFT) 40A (5/50ns)

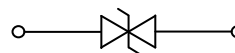
Applications

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

SES8VD1006-2B



DFN1006



Schematic Diagram

Absolute Maximum Ratings

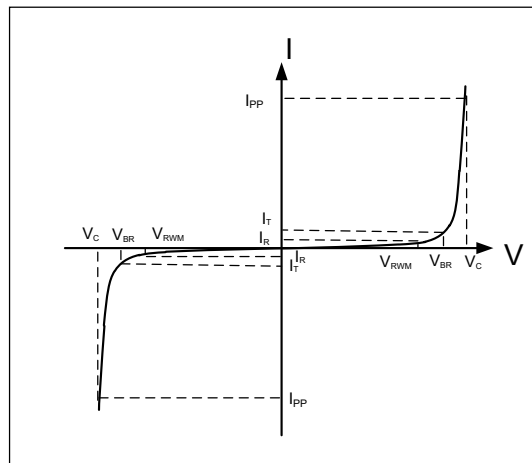
($T_A = 25^\circ C$, Unless otherwise specified.)

Parameter	Symbol	Value	Unit
Peak Pulse Power ($T_P = 8/20\mu s$)	P_{PP}	360	W
Peak Pulse Current ($t_P = 8/20\mu s$)	I_{PP}	19	A
Junction Temperature	T_J	-55 to +125	$^\circ C$
Storage temperature	T_{STG}	-55 to +150	$^\circ C$

Electrical Characteristics

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

Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current



Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}				8	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	9			V
Reverse Leakage Current	I_R	$V_R=8V$		0.1	0.5	μA
Clamping Voltage	V_C	$I_{PP}=19A, T_P=8/20\mu S$			19	V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$		45		V

Typical Characteristic Curves

Fig.1 Peak Pulse Power Rating Curve

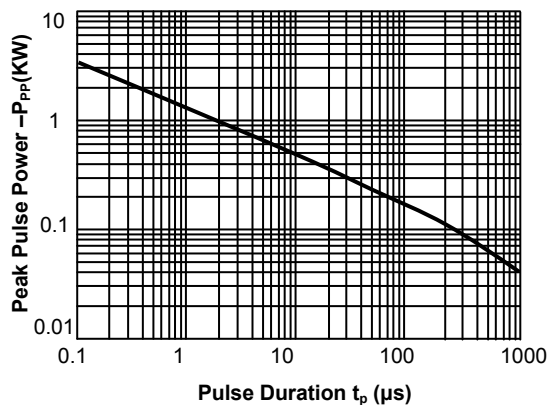


Fig.2 Pulse Derating Curve

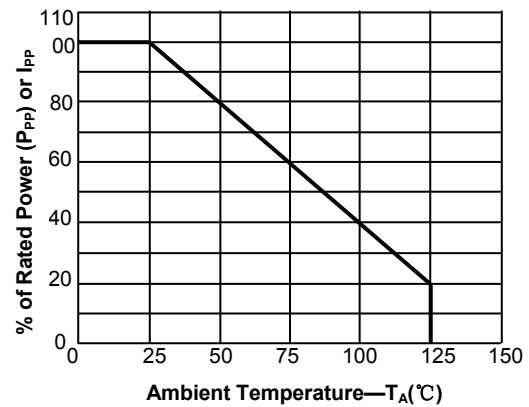


Fig.3 Pulse Waveform-8/20μs

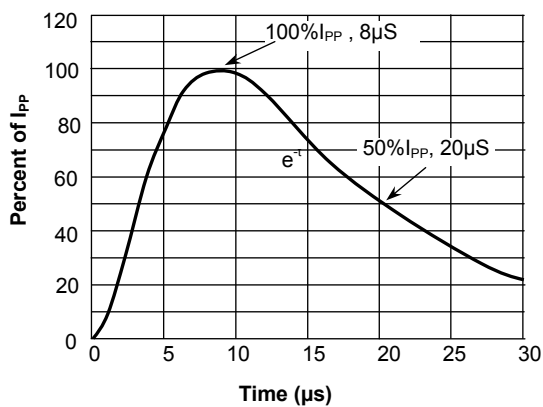
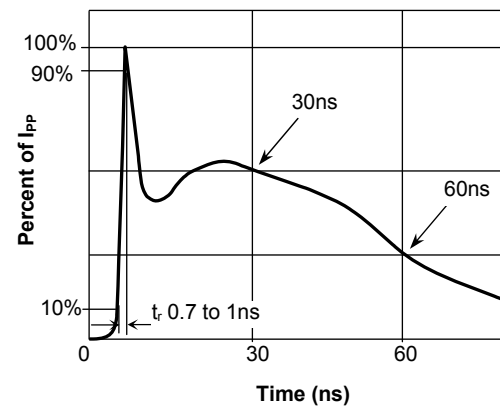
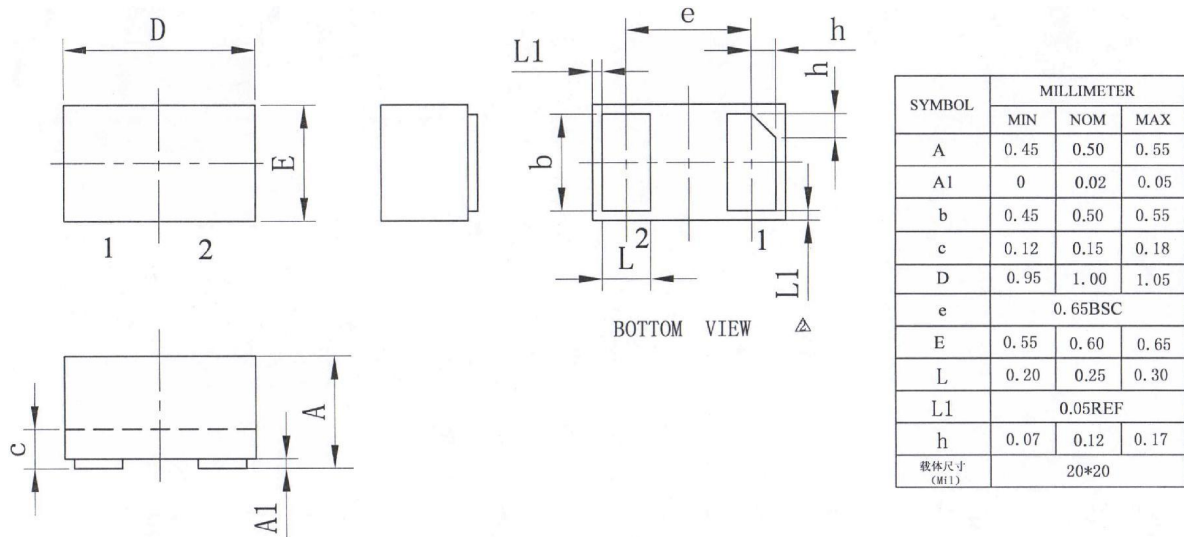


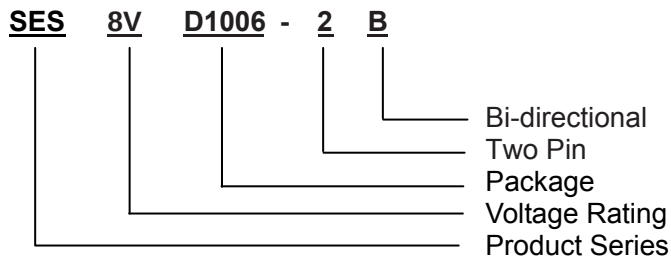
Fig.4 Pulse Waveform-ESD(IEC61000-4-2)



Product Dimensions



Part Number System



Order Information

Device	Package	Marking	Carrier	Quantity	HSF Status
SES8VD1006-2B	DFN1006	8B	Tape & Reel	10000pcs/Reel	RoHS compliant

Revision history

Date	Revision	Description of changes
12-March-2016	A0	First issue

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