

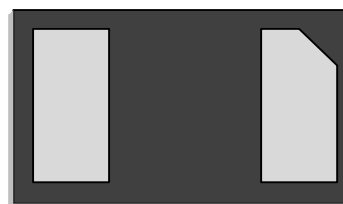
Features

- 80 Watts peak pulse power ($t_p = 8/20\mu s$)
- DFN1006-2L package
- Bidirectional configurations
- Protects I/O and power 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)
- IEC 61000-4-5 (Lighting) 10A (8/20 μs)

Applications

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

SES3V3D1006SY-2B



DFN1006-2L



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}	80	W
Peak Pulse Current ($t_p = 8/20\mu S$)	I_{PP}	10	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.)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}				3.3	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	3.8			V
Reverse Leakage Current	I_R	$V_R=3.3V$		0.1	0.2	μA
Clamping Voltage	V_C	$I_{PP}=5A, T_p=8/20\mu s$			6	V
Clamping Voltage	V_C	$I_{PP}=10A, T_p=8/20\mu s$			8	V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$		12	15	pF

Typical Characteristic Curves

Figure 1: Peak Pulse Power vs. Pulse Time

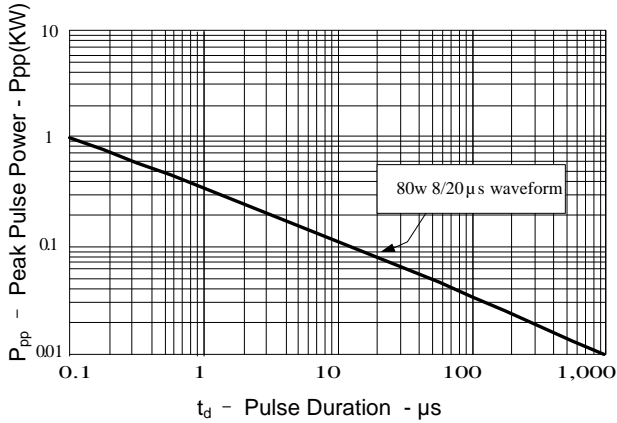


Figure 2: Power Derating Curve

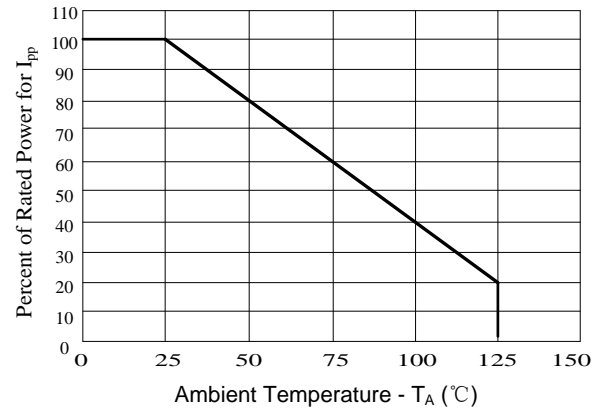


Figure 3: Pulse Waveform

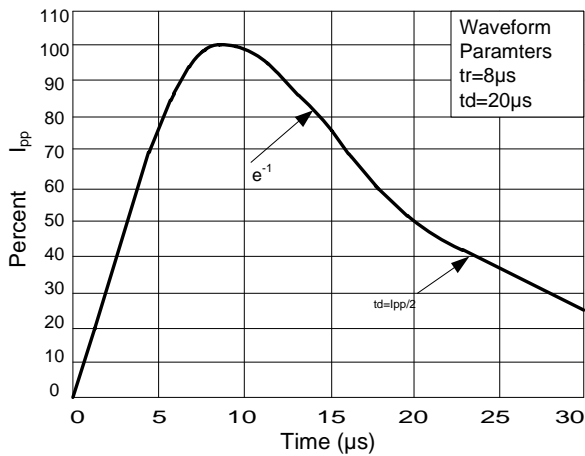
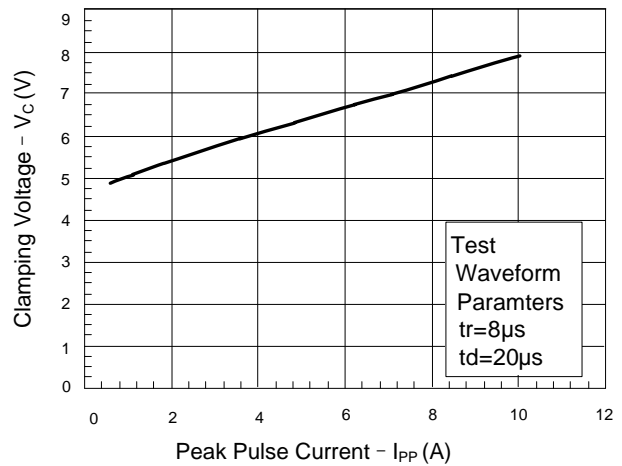
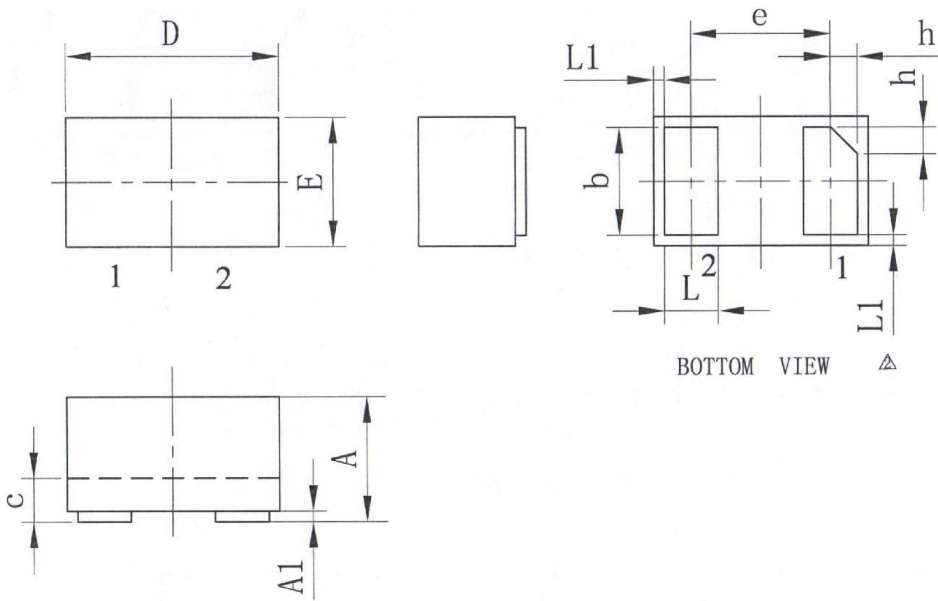


Figure 4: Clamping Voltage vs. I_pp



PACKAGE OUTLINE



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	0.45	0.50	0.55
A1	0	0.02	0.05
b	0.45	0.50	0.55
c	0.12	0.15	0.18
D	0.95	1.00	1.05
e	0.65BSC		
E	0.55	0.60	0.65
L	0.20	0.25	0.30
L1	0.05REF		
h	0.07	0.12	0.17
载体尺寸 (mm)	20*20		

Marking



Order Information


Device	Package	Carrier	Quantity	HSF Status
SES3V3D1006SY-2B	DFN1006-2B	Tape & Reel	10000pcs / Reel	RoHS compliant

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