

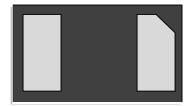
Features

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

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 =8/20µS)	P _{PP}	80	W
Peak Pulse Current (t₂ = 8/20µS)	I _{PP}	10	Α
Junction Temperature	TJ	-55 to +125	$^{\circ}$
Storage temperature	T _{STG}	-55 to +150	$^{\circ}$ C

Electrical Characteristics

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

Parameter	Symbol	Condition	Min	Тур	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	IPP=5A,Tp=8/20μs			6	V
Clamping Voltage	Vc	IPP=10A,Tp=8/20µs			8	V
Junction Capacitance	CJ	V _R =0V,f=1MHz		12	15	pF



Typical Characteristic Curves

Figure 1: Peak Pulse Power vs. Pulse Time

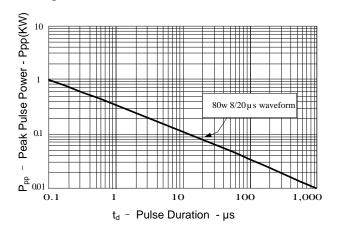


Figure 2: Power Derating Curve

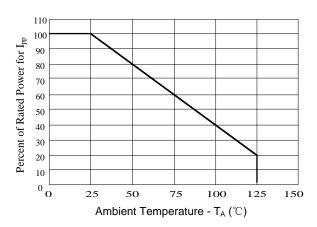


Figure3: Pulse Waveform

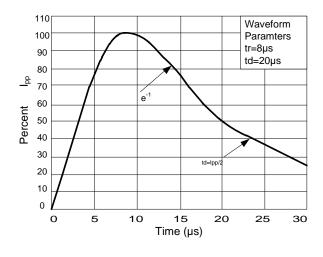
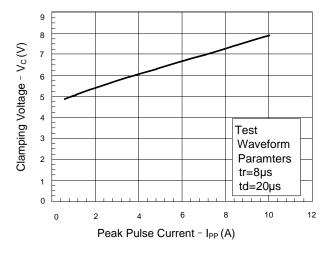
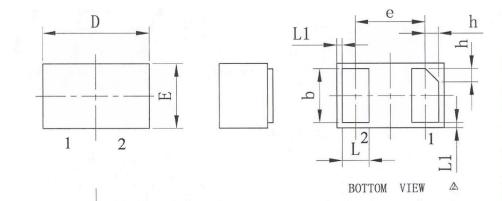


Figure 4: Clamping Voltage vs.lpp





PACKAGE OUTLINE



SYMBOL	MILLIMETER			
SYMBOL	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			
Е	0.55	0.60	0.65	
L	0.20	0.25	0.30	
L1	0.05REF			
h	0.07	0.12	0.17	
裁体尺寸 (Mil)	20*20			

Marking

3E

Order Information

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



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