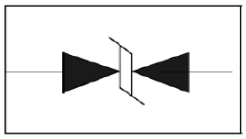
DFN1006



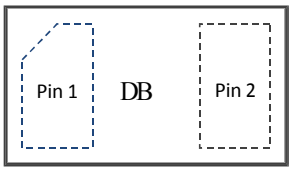
Features

450Watts peak pulse power(tp=8/20us)
Low clamping voltage
Low leakage current
Glass passivated junction
IEC 61000-4-2 ±8KV contact ±15KV air
Halogen free and RoHS compliant

Mechanical Data

CASE: DFN1006 Molded Plastic
Molding compound flammability rating: UL 94V-0
Mounting Position:Any

Making Code & Ordering information



Ordercode	Package	Base qty	Deliverymode
PDF2V36C	DFN1006	10000	Tape and reel

Maximum Ratings & Thermal Characteristics

(Ratings at 25℃ ambient temperature unless otherwise specified.)

Rating	Symbol	Value	Units
Peak Pulse Power (t_p =8/20μs)	P_{PP}	450	Watts
Peak Pulse Current (t_p =8/20μs)(note1)	I_{pp}	4	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V_{ESD}	15 8	kV
Lead Soldering Temperature	T_L	260(10seconds)	℃
Junction Temperature	T_J	-55 to + 125	℃
Storage Temperature	T_{stg}	-55 to + 125	℃

Electrical Characteristics

(Ratings at 25℃ ambient temperature unless otherwise specified).

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{RWM}				36	V
Reverse Breakdown Voltage	V_{BR}	I_T=1mA	40			V
Reverse Leakage Current	I_R	V_{RWM}=36V,T=25℃		0.1	0.5	μA
Peak Pulse Current	I_{PP}	tp =8/20μs			4	A
Clamping Voltage	V_C	I_{PP}=4A,t_p=8/20μs		110	115	V
Junction Capacitance	C_j	V_R = 0V, f = 1MHz		13	20	pF

Ratings and Characteristic Curves

（Ratings at 25℃ ambient temperature unless otherwise specified).

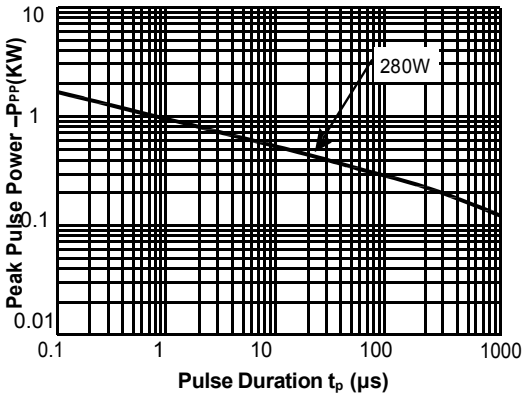


Figure 1: Peak Pulse Power vs. Pulse Time

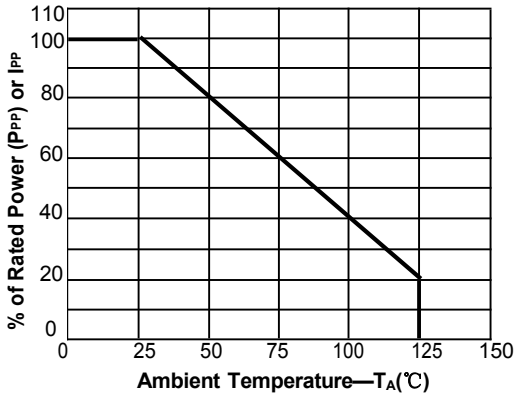


Figure 2: Power Derating Curve

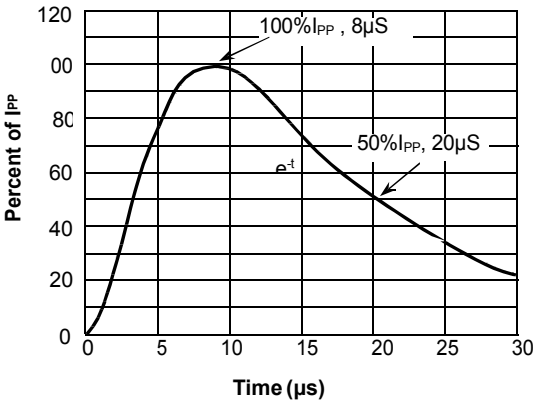


Fig.3 PulseWaveform-8/20μs

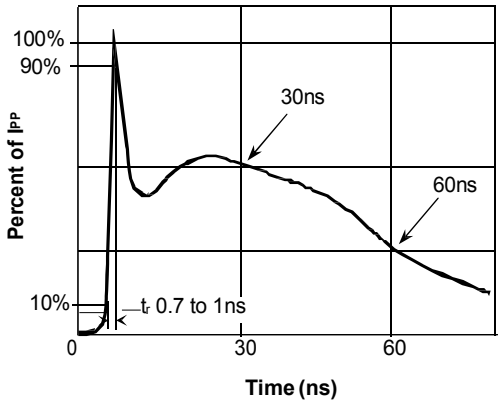
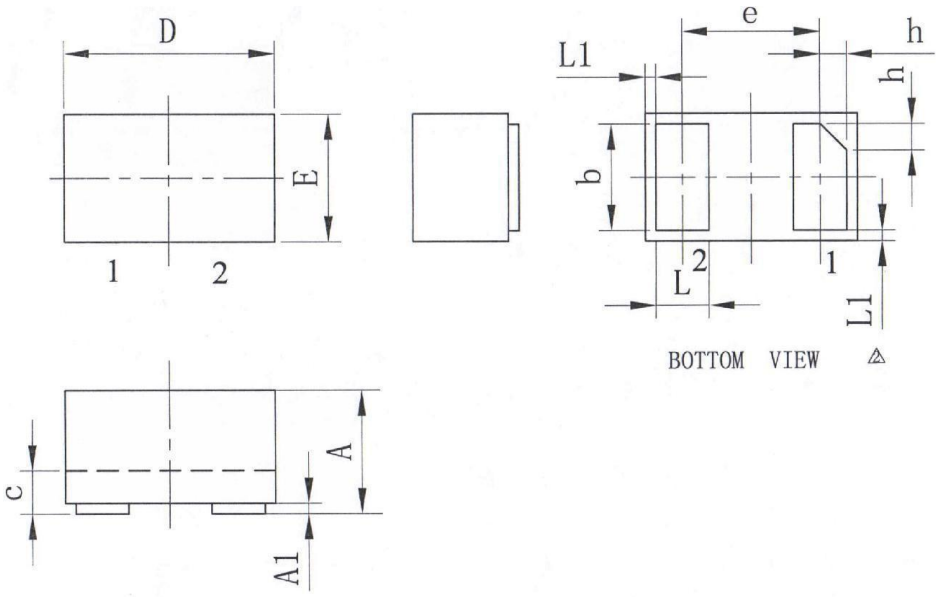


Fig.4 PulseWaveform-ESD(IEC61000-4-2)

Package Outline Dimensions: DFN1006



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 (Mil)	20*20		