

RoHS Compliant Product
 A suffix of "-C" specifies halogen and lead-free

FEATURES

- Capacitance : 60pF (max.)
- Working Voltage : 24V
- IEC 61000-4-2 (ESD) : ±30kV (air)
- IEC 61000-4-2 (ESD) : ±30kV (contact)
- IEC 61000-4-5 (Lightning) : 5A (8/20µs)

DFN1006



APPLICATION

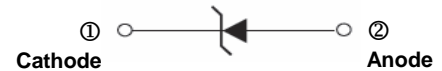
- Cellular Handsets and Accessories
- Personal Digital Assistants (PDAs)
- Notebooks and Handhelds
- Portable Instrumentation
- Digital Cameras
- Audio Players

MARKING

4P

PACKAGE INFORMATION

Package	MPQ	Leader Size
DFN1006	10K	7 inch



ORDER INFORMATION

Part Number	Type
SBESD24-C	Lead (Pb)-free and Halogen-free

ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise noted.)

Parameter	Symbol	Ratings	Unit
IEC 61000-4-2 ESD Voltage	V _{ESD}	±30	kV
		±30	
Peak Pulse Power	P _{PP}	200	W
Peak Pulse Current	I _{PP}	5	A
Operating Junction Temperature Range	T _J	-55~125	°C
Storage Temperature Range	T _{STG}	-55~150	

ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise noted.)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Working Voltage	V_{RWM}	-	-	24	V	
Breakdown Voltage	$V_{(BR)}$	27	-	-	V	$I_T=1\text{mA}$
Clamping Voltage @ $t_p=8/20\mu\text{s}$	V_C	-	30	-	V	$I_{PP}=1\text{A}$
		-	40	-		$I_{PP}=5\text{A}$
Forward Voltage @ Pin 2 to Pin 1	V_F	-	-	1.2	V	$I_F=10\text{mA}$
Reverse Leakage Current	I_R	-	-	1	μA	$V_{RWM}=24\text{V}$
Junction Capacitance	C_J	-	-	60	pF	$V_R=0\text{V}$, $f=1\text{MHz}$

TYPICAL CHARACTERISTICS

FIG. 1-Power Derating Curve

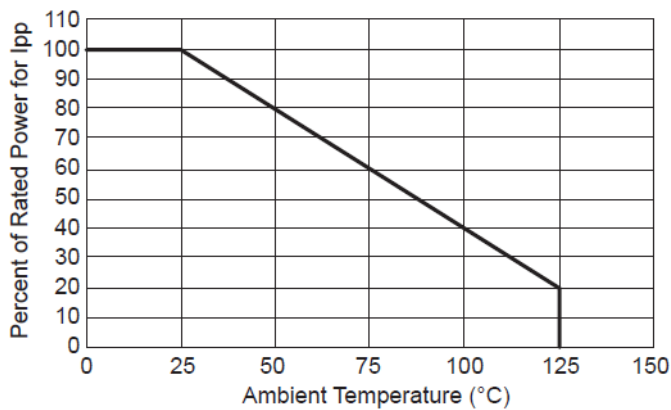


FIG. 2-8/20 μs Pulse Waveform

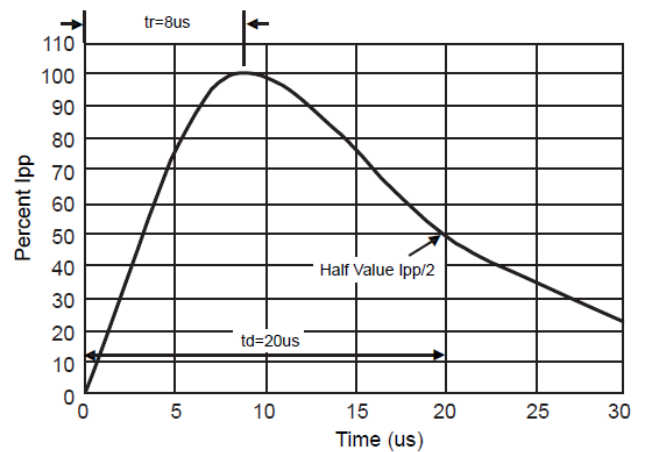
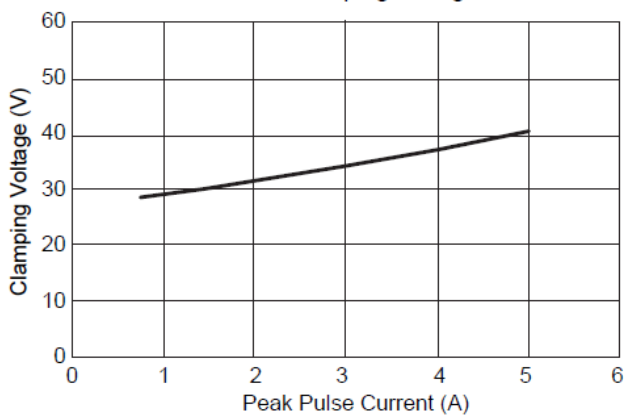
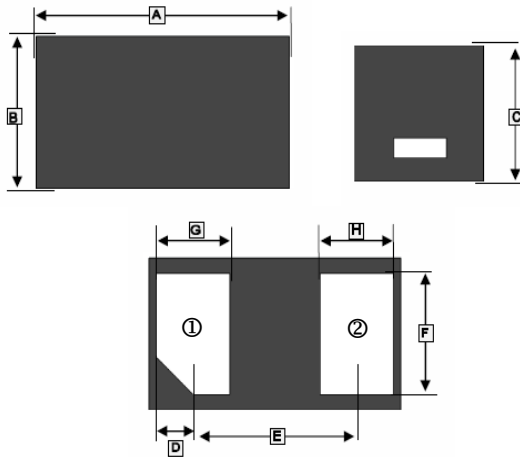


FIG. 3-Clamping Voltage



PACKAGE OUTLINE DIMENSIONS

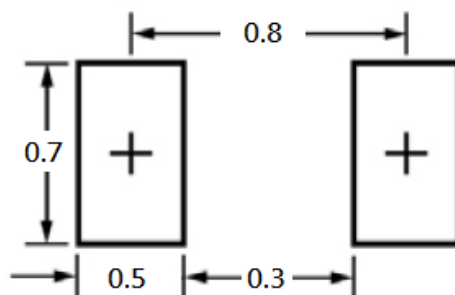
DFN1006



REF.	Millimeter	
	Min.	Max.
A	0.90	1.10
B	0.48	0.70
C	0.32	0.55
D	0.10 TYP.	
E	0.65 BSC.	
F	0.20	0.60
G	0.15	0.55
H	0.15	0.55

MOUNTING PAD LAYOUT

DFN1006



*Dimensions in millimeters