
5 LINES, 5V, 0406 SMD, BI-DIRECTIONAL, TVS DIODE ARRAY

PRODUCT DESCRIPTION

The B06CSP05B is a Bi-directional Transient Voltage Suppressor that is designed to provide a higher level protection for sensitive 5V electronic components from damage or latchup due to electrostatic discharge (ESD) and other voltage induced transient events.

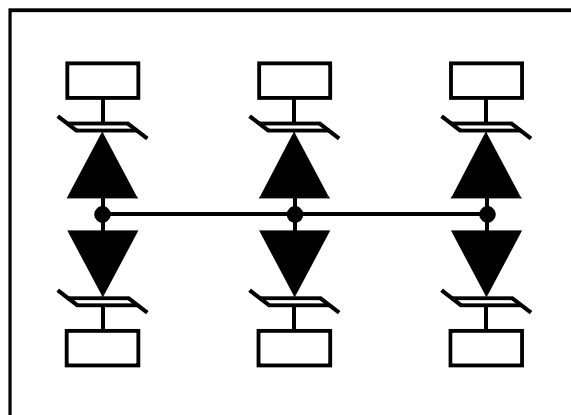
APPLICATIONS

- ※ Cell Phone Handsets and Accessories
- ※ PDAs
- ※ Notebook and Hand Held Computers
- ※ Pagers
- ※ Smart Cards
- ※ MP3 Players
- ※ Wireless Communication Circuits
- ※ PCMCIA Cards

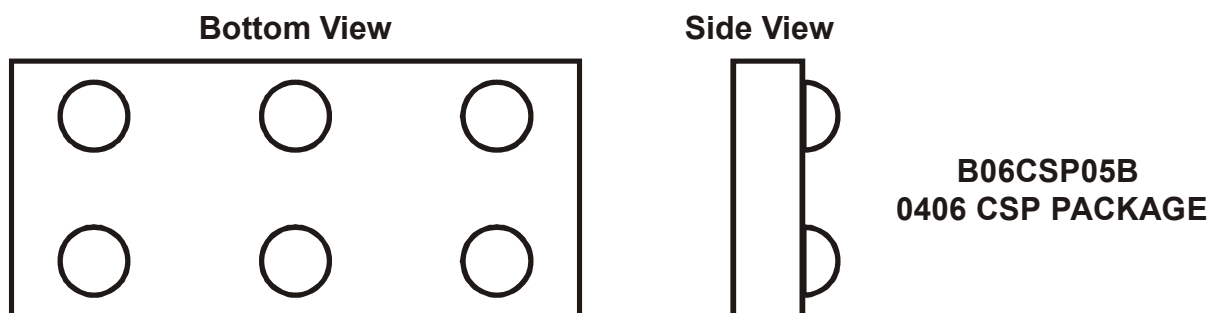
FEATURES

- ※ 250 Watts peak pulse power ($t_p = 8/20\mu s$)
- ※ Transient protection for data lines to IEC 61000-4-2 (ESD) $\pm 15kV$ (air), $\pm 8kV$ (contact)
IEC 61000-4-4 (EFT) 40A (5/50ns)
- ※ Bidirectional protection
- ※ Working voltage: 5V
- ※ Low clamping voltage
- ※ Complies with the following standards:
 - IEC 61000-4-2 (ESD) Air-15kv, Contact-8kv
 - IEC 61000-4-4 (EFT) (5/50ns)
 - IEC 61000-4-5 (Surge) (8/20 μs)

ELECTRICAL SCHEMATIC & PIN CONFIGURATION



PACKAGE / PINOUT DIAGRAMS


ORDERING INFORMATION

Ordering Part Number	Package	Bumps	Polarity
B06CSP05B	CSP (EIA 0406 Size Code)	6	Bi-Directional

CSP TAPE & REEL SPECIFICATIONS

Ordering Part Number	Chip Size (in mm)	Qty Per Reel	Reel Size
B06CSP05B	0.99 x 1.5	5,000 pcs/Reel	7 Inch

ELECTRICAL CHARACTERISTICS

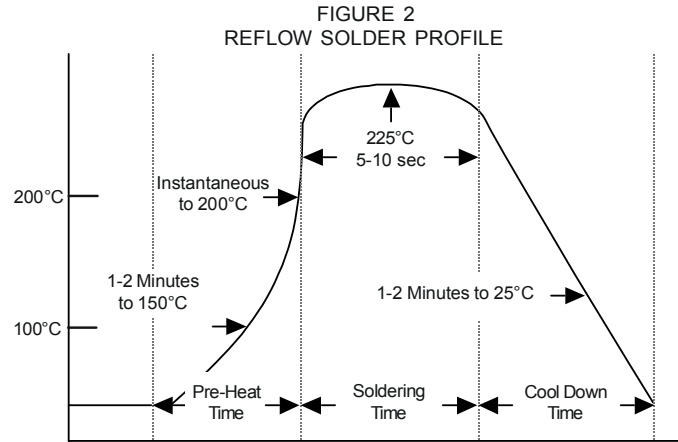
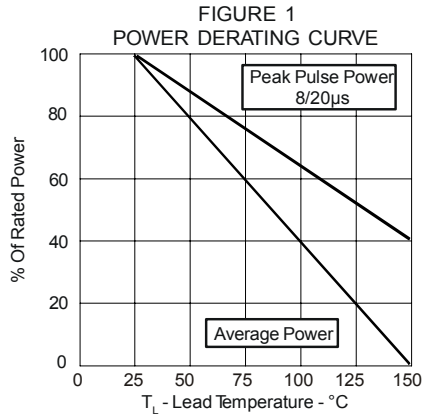
ABSOLUTE MAXIMUM RATING @25°C

Rating	Symbol	Value	Units
Peak Pulse Power ($t_p = 8/20\mu s$)	P_{pp}	250	Watts
Soldering Temperature	T_L	225	°C
Operating Temperature	T_J	-55 to +150	°C
Storage Temperature	T_{STG}	-55 to +150	°C

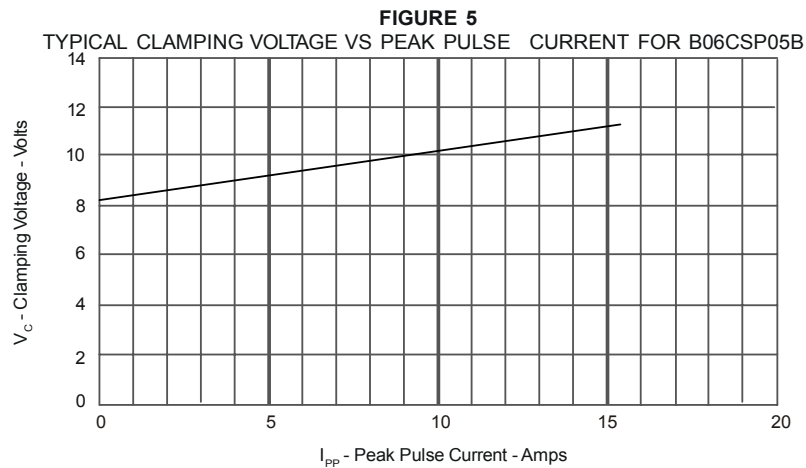
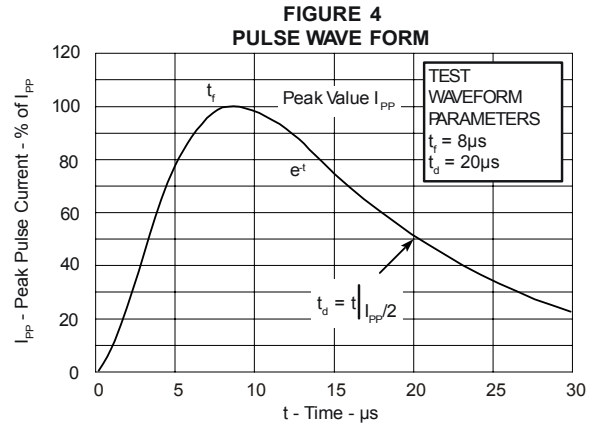
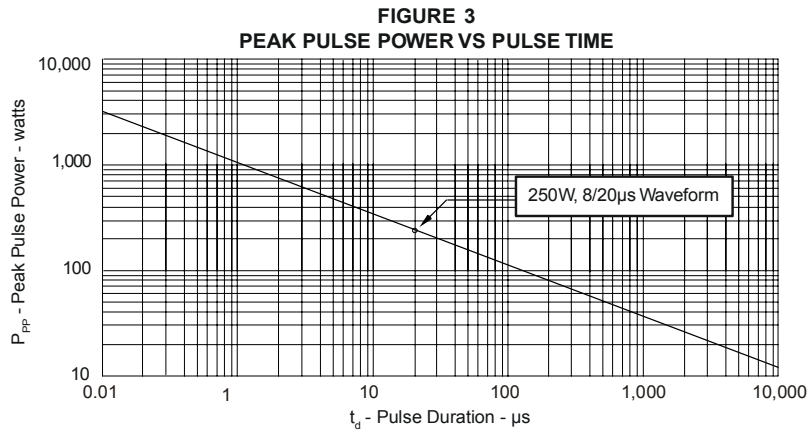
ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse Stand-Off Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	$I_t = 1mA$	6			V
Reverse Leakage Current	I_R	$V_{RWM} = 5V, T=25°C$			10	μA
Clamping Voltage	V_C	$I_{PP} = 1A, t_p = 8/20\mu s$ Any I/O to Ground			9.8	V
Clamping Voltage	V_C	$I_{PP} = 17A, t_p = 8/20\mu s$ Any I/O to Ground			14.7	V
Junction Capacitance	C_j	$V_R = 0V, f = 1MHz$		100		μF

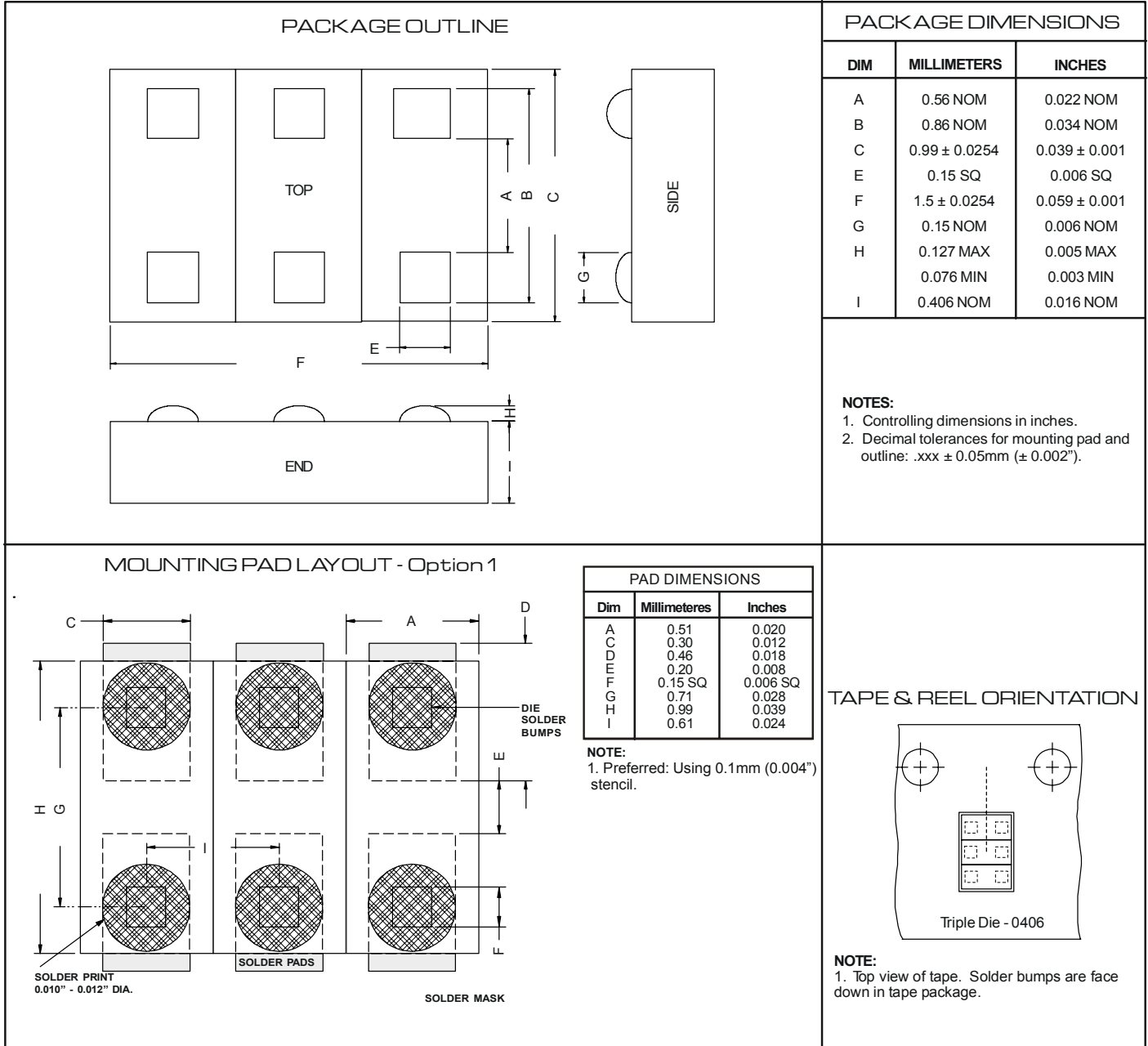
TYPICAL CHARACTERISTICS



Note: This reflow profile does not take into account the printed circuit board (PCB) material heating time. Additional time may be required for the preheat time and cool down time upon the PCB or board material.



PACKAGE OUTLINE & DIMENSIONS



PACKAGE OUTLINE & DIMENSIONS

