

DESCRIPTION

The BV05C are ultra low capacitance transient voltage suppressor arrays, designed to protect applications such as portable electronics and SMART phones. This series is available in both unidirectional and bidirectional configurations and is rated at 350 Watts for an 8/20µs wave shape.

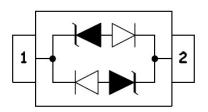
The BV05C meets IEC 61000-4-2 (ESD) and IEC 61000-4-4 (EFT) requirements. At higher operating frequencies or faster edge rates, insertion loss and signal integrity are a major concern. This series offers a ultra low capacitance and low leakage current in a miniature SOD-323 package.

ORDERING INFORMATION

◆Package: SOD-323◆Material: Halogen free◆Packing: Tape & Reel

♦ Quantity per reel: 3,000pcs

PIN CONFIGURATION



FEATURES

♦ Transient protection for high-speed data lines IEC 61000-4-2 (ESD) ±8kV (Contact) ±15kV (Air)

IEC 61000-4-4 (EFT) 40A (5/50 ns)

- ♦Protects one I/O line (bidirectional)
- ♦Low clamping voltage
- ♦Low leakage current
- ♦ Response time is < 1 ns</p>

MACHANICAL DATA

- ♦SOD-323 package
- ♦Flammability Rating: UL 94V-0
- ♦ Packaging: Tape and Reel
- ♦High temperature soldering guaranteed: 260°C/10s
- ♦Reel size: 7 inch
- ♦MSL1

APPLICATIONS

- ♦ Cell Phone Handsets and Accessories
- ♦ Microprocessor based equipment
- ♦ Personal Digital Assistants (PDA's)
- ♦Notebooks, Desktops, and Servers
- ♦Portable Instrumentation
- ♦ Peripherals
- ♦USB Interface

PACKAGE OUTLINE

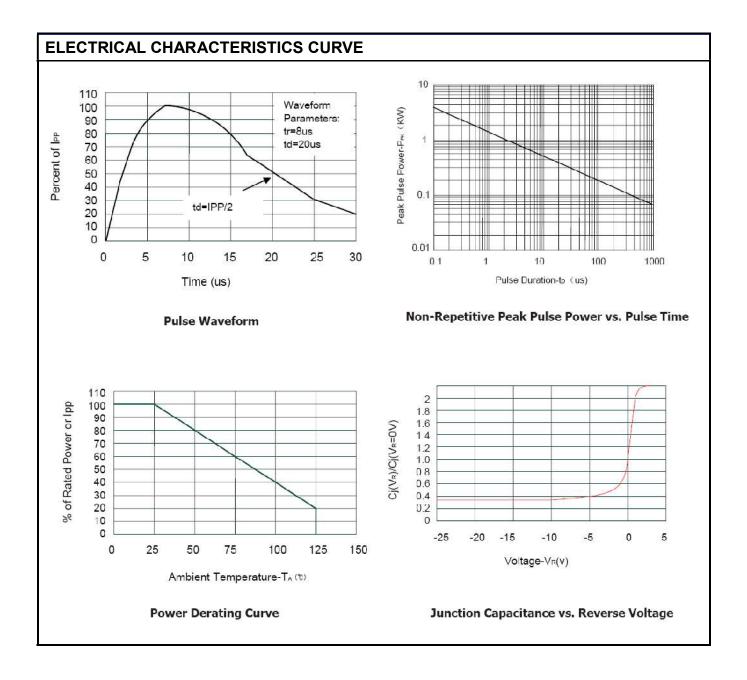




ABSOLUTE M	AXIMUM RATING	RATING				
Symbol	Parameter	Value	Units			
V _{ESD}	ESD per IEC 61000-4-2 (Air)	±15	kV			
♥ ESD	ESD per IEC 61000-4-2 (Contact)	±8	IX V			
P _{PP}	Peak Pulse Power (8/20μs)	350	W			
T _{OPT}	Operating Temperature	-55/+150	°C			
T _{STG}	Storage Temperature	-55/+150	°C			
TL	Lead Soldering Temperature	260	°C			

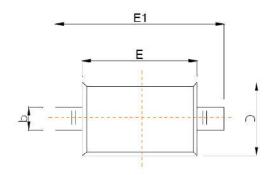
ELECTRICAL CHARA	RICAL CHARACTERISTICS (Tamb=25°C)								
	V_{RWM}	V _B @1mA	V _C @1A	V _c @)lpp	V _C @	plpp	I _R	C_T
PART	(V)	(V)	(V)	(\	/)	(\	/)	(µA)	(pF)
NUMBER	Max	Min	Max	Max	lpp (A)	Max	Ipp (A)	Max	Тур.
BV05C	5.0	6.0	9.8	18.3	8	20.0	18	1	0.8

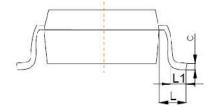


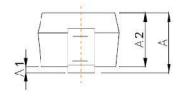




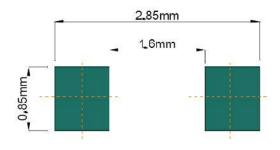
SOD-323 PACKAGE OUTLINE DIMENSIONS







Cumbal	Dimensions In Millimeters			
Symbol	Min	Max		
Α		1.00		
A1	0.000 0.100			
A2	0.800 0.900			
b	0.250 0.35			
С	0.080	0.150		
D	1.200	1.400		
Е	1.600	1.800		
E1	2.500	2.700		
е	1.800	2.040		
L	0.475 REF			
L1	0.250	0.400		
θ	0°	8°		



Recommended Pad outline