

Bidirectional Ultra Low Capacitance TVS Array

DESCRIPTION

The GBLCxxC Series are ultra low capacitance transient voltage suppressor arrays, designed to protect applications such as portable electronics and SMART phones. This series is available in bidirectional configurations and is rated at 300 Watts for an 8/20µs wave shape.

The GBLCxxC Series 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 ultra low capacitance and low leakage current in a miniature SOD-323 package.

FEATURES

- ♦IEC61000-4-2 (ESD) ±8kV (Contact), ±15kV (Air)
- ♦IEC61000-4-4 (EFT) 40A (5/50ηs)
- ♦Protects one I/O line (bidirectional)
- ♦Low clamping voltage
- ♦ Working voltages: 3V, 5V, 8V, 12V, 15V, 24V
- ♦Low leakage current
- ♦ Response Time is < 1 ns

MACHANICAL DATA

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

ORDERING INFORMATION

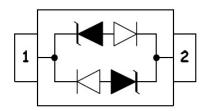
Device: GBLCxxCPackage: SOD-323Material: Halogen freePacking: Tape & Reel

♦ Quantity per reel: 3,000pcs

APPLICATIONS

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

PIN CONFIGURATION



PACKAGE OUTLINE





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ABSOLUTE I	BSOLUTE MAXIMUM RATING							
Symbol	Parameter	Value	Units					
V ESD	ESD per IEC 61000-4-2 (Contact) ESD per IEC 61000-4-2 (Air)	±8 ±15	kV					
P_PP	Peak Pulse Power (8/20µs)	300	W					
T_OPT	Operating Temperature	-55/+150	°C					
T _{STG}	Storage Temperature	-55/+150	°C					
TL	Lead Soldering Temperature	260	°C					

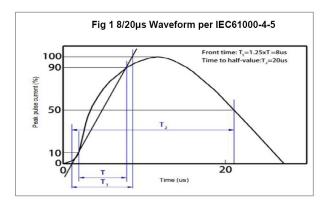
ELECTRICAL CHARACTERISTICS (Tamb=25°C)									
PART NUMBER	DEVICE MARKING	V _{RWM} (V) (max.)	V _B (V) (min.)	I _T (mA)	V _C @1A (V) (max.)	(\ (max.)		l _R (μΑ) (max.)	C _T (pF) (typ.)
GBLC03C	CC	3.0	4.0	1	7.0	13.9	8	2	8.0
GBLC05C	AC	5.0	6.0	1	9.8	18.3	8	1	0.8
GBLC08C	ВС	8.0	8.5	1	13.4	18.5	8	1	8.0
GBLC12C	DC	12.0	13.3	1	19.0	28.6	6	1	0.8
GBLC15C	EC	15.0	16.7	1	24.0	31.8	5	1	0.8
GBLC24C	НС	24.0	26.7	1	43.0	56.0	3	1	0.8

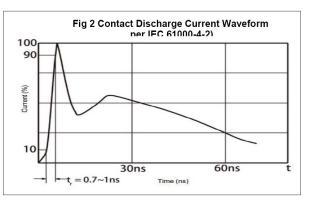
REV: B 2 of 4 www.gt-semi.com

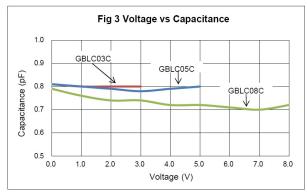


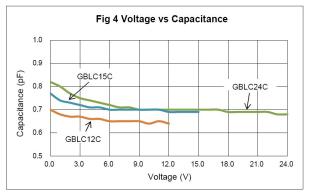
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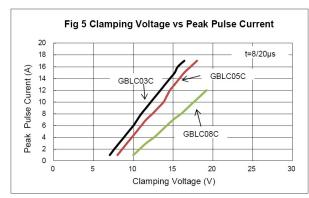
ELECTRICAL CHARACTERISTICS CURVE

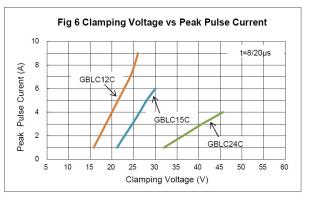










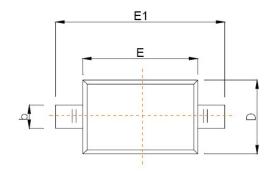


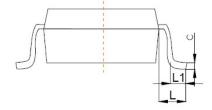
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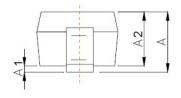


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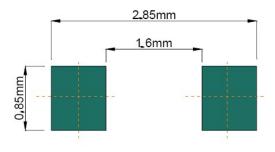
SOD-323 PACKAGE OUTLINE DIMENSIONS







Cumbal	Dimensions In Millimeters				
Symbol	Min	Max			
Α		1.00			
A1	0.000	0.100			
A2	0.800	0.900			
b	0.250	0.350			
С	0.080	0.150			
D	1.200	1.400			
E	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