DESCRIPTION

GBLC03_05_08_12_15_18_20_24c are in SOD-323 package.

- IEC61000-4-2(ESD): ±15kV(AIR),
 ±8kV (CONTACT)
- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5 (Lightning) 12A (8/20μs)
- Protects one I/O line (bidirectional)
- Low clamping voltage
- Working voltages: 3V, 5V, 8V, 12V, 15V, 18V& 24V
- Low leakage current
- Response Time is < 1 ns

MECHANICAL DATA

- SOD-323 Package
- Solder Reflow Temperature: 260°C/10s
- Flammability Rating: UL94V-0
- Approx Weight: 5mg

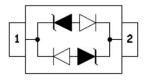
APPLICATIONS

- Ethernet 10/100/1000 Base T
- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Peripherals
- USB Interface

ORDERING INFORMATION

Package Type	Part Number	
	GBLC03C	
	GBLC05C	
SOD-323	GBLC08C	
	GBLC12C	
	GBLC15C	
	GBLC18C	
	GBLC20C	
	GBLC24C	
SPQ	3,000 pcs/Reel	
AiT provides all RoHS Compliant Products		

PIN DESCRIPTION





ABSOLUTE MAXIMUM RATINGS

T_A = 25°C, unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbol	Value	Unit	
ESD per IEC 61000-4-2 (Air)	V	±15	kV	
ESD per IEC 61000-4-2 (Contact)	V _{ESD}	±8	KV	
Peak Pulse Power (8/20µs)	P _{PP}	250	W	
Operating Temperature	Торт	-55/+150	℃	
Storage Temperature	T _{STG}	-55/+150	°C	
Lead Soldering Temperature	TL	260	°C	

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ELECTRICAL CHARACTERISTICS

 $T_A = 25$ °C unless otherwise noted

	V _{RWM}	V _B @1mA (V)	Vc@1A (V)	Vc@ (\		Vc@ (\		IR	Ст
Part Number	Max	Min	Max	Max	lpp (A)	Max	lpp (A)	(µA) Max	(pF) Typ.
GBLC03C	3.0	4.0	7.0	13.9	8	20.0	20	5	0.8
GBLC05C	5.0	6.0	9.8	18.3	8	20.0	18	1	0.8
GBLC08C	8.0	8.5	13.4	18.5	8	24.0	18	1	0.8
GBLC12C	12.0	13.3	19.0	24.0	6	28.6	12	1	0.8
GBLC15C	15.0	16.7	24.0	29.0	5	31.8	10	1	0.8
GBLC18C	18.0	20.0	35.0	45.0	5	53.0	7	1	0.8
GBLC20C	20.0	22.0	38.0	45.0	4	55.0	7	1	0.8
GBLC24C	24.0	26.7	43.0	45.0	3	56.0	6	1	0.8

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TYPICAL CHARACTERISTICS

Fig 1. Pulse Waveform

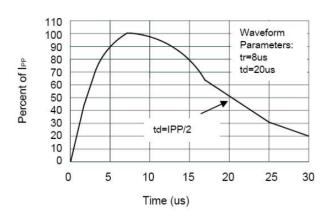


Fig 2. Non-Repetitive Peak Pulse Power vs. Pulse Time

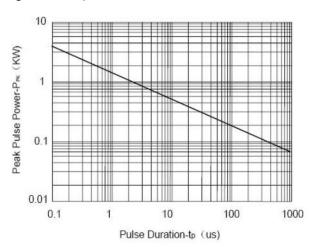


Fig 3. Power Derating Cure

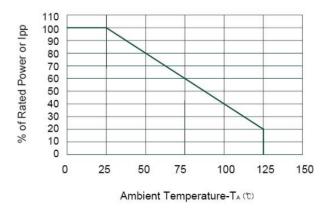
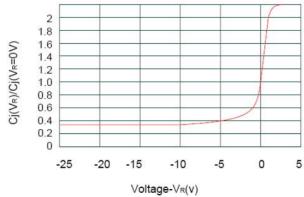


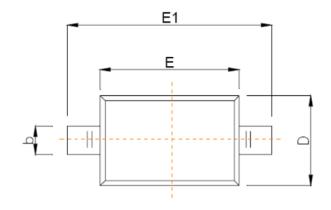
Fig 4. Junction Capacitance vs. Reverse Voltage

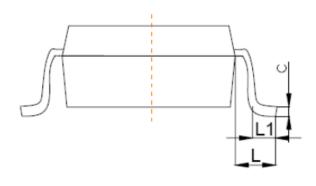


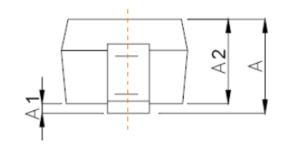
TVS BIDIRECTIONAL ULTRA LOW CAPACITANCE TVS ARRAY

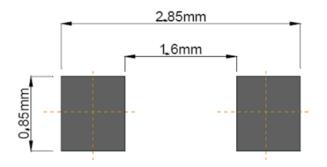
PACKAGE INFORMATION

Dimension in SOD-323 (Unit: mm)









RECOMMENDED LAND PATTERN

Symbol	Min	Max		
Α	-	1.000		
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		
Е	1.600	1.800		
E1	2.500	2.700		
Е	1.800	2.040		
L	0.475REF			
L1	0.250	0.400		
θ	00	80		

TVS

BIDIRECTIONAL ULTRA LOW CAPACITANCE TVS ARRAY

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