

■ Features

- ◆ 350 Watts Peak Pulse Power per Line (tp=8/20μs)
- ◆ Protects one I/O line
- ◆ Low clamping voltage
- ◆ Working voltages :
3.3V, 5V, 8V, 12V, 15V, 18V, 24V and 36V
- ◆ Low leakage current
- ◆ Suffix "G" indicates Halogen-free part, ex.GBLC03CG.

■ Mechanical data

- ◆ Epoxy:UL94V-0 rated flame retardant
- ◆ Case : Molded plastic, SOD-323
- ◆ Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- ◆ Polarity : Indicated by cathode band
- ◆ Weight : 0.0002 ounce, 0.005 gram

■ Applications

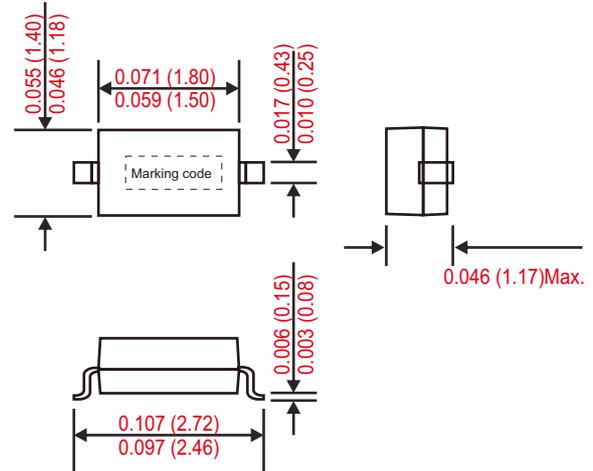
- ◆ Cell Phone Handsets and Accessories
- ◆ Microprocessor based equipment
- ◆ Personal Digital Assistants (PDA's)
- ◆ Notebooks, Desktops, and Servers
- ◆ Portable Instrumentation
- ◆ Peripherals
- ◆ USB Interface

■ IEC COMPATIBILITY

- ◆ IEC61000-4-2 (ESD) ±30kV (air), ±30kV (contact) : 3.3 ~ 15V
- ◆ IEC61000-4-2 (ESD) ±25kV (air), ±15kV (contact) : 24V
- ◆ IEC61000-4-4 (EFT) 40A (5/50ηs)
- ◆ IEC61000-4-5 (Lighting) 2 ~ 15A (8/20μs)

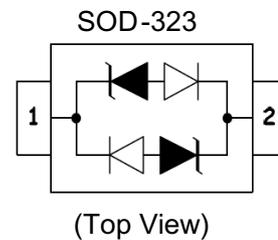
■ Outline

SOD-323



Dimensions in inches and (millimeters)

■ Pin Configuration



DEVICE CHARACTERISTICS

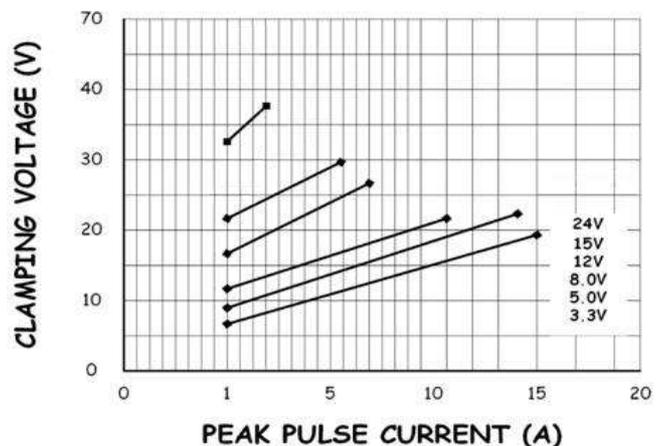
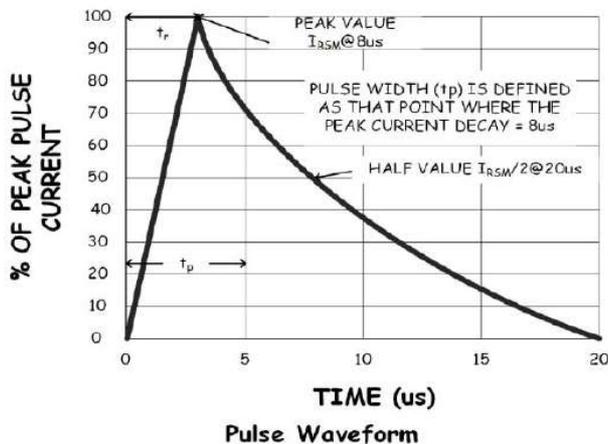
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20µs waveform) -- GBLC03C	P _{PP}	315	Watts
Peak Pulse Power (tp=8/20µs waveform) -- GBLC05C	P _{PP}	350	Watts
Peak Pulse Power (tp=8/20µs waveform) -- GBLC08C	P _{PP}	312	Watts
Peak Pulse Power (tp=8/20µs waveform) -- GBLC12C	P _{PP}	210	Watts
Peak Pulse Power (tp=8/20µs waveform) -- GBLC15C	P _{PP}	210	Watts
Peak Pulse Power (tp=8/20µs waveform) -- GBLC24C	P _{PP}	168	Watts
Lead Soldering Temperature	T _L	260 (10 sec.)	°C
Operating Temperature Range	T _J	-40 ~ 125	°C
Storage Temperature Range	T _{STG}	-55 ~ 150	°C

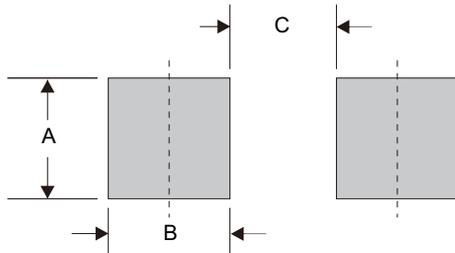
ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)

PART NUMBER	DEVICE MARKING	V _{RWM}	V _B	I _T	V _C	V _C		I _R	C _T
		(V) (max.)	(V) (min.)	(mA)	@1A (max.)	(max.)	(@A)	(µA) (max.)	(pF) (typ.)
GBLC03C	CC / 3B	3.3	4.0	1	7.5	21	15	40	1
GBLC05C	AC / 5B	5.0	6.0	1	9.8	25	14	5	1
GBLC08C	BC / 8B	8.0	8.5	1	13.4	26	12	2	1
GBLC12C	DC / AB	12	13.3	1	19	30	7	1	1
GBLC15C	EC / BB	15	16.7	1	24	35	6	1	1
GBLC24C	HC / CB	24	26.7	1	43	56	3	1	1

Rating and characteristic curves



■ SOD-323 foot print



A	B	C
0.033 (0.83)	0.025 (0.63)	0.063 (1.60)

Dimensions in inches and (millimeters)

■ Ordering/Packing information

	Part number	Case	Q'TY/Reel (PCS)	Q'TY/Box (PCS)	Q'TY/Carton (PCS)
Halogen free	GBLC03CG Series	SOT-323	3,000	30,000	240,000

Notes : 1. For packaging details please reference our website at <http://www.citcorp.com.tw/tchinese/products/index.php>

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