

GBLC03 SERIES

350W Surface Mount Transient Voltage Suppressor Array
VOLTAGE : 3.3 TO 24Volts

Features	Outline
• 61000-4-2(ESD): Air-15KV, Contact-8KV. • Uni-directional & Bi-directional configuration. • Stand-off voltage: 3.3V-24V. • Low leakage. • Low capacitance, 3pF maximum. • Replacement for MLV(0805). • Protect one poer or I/O port. • Low clamping voltage, • Suffix "G" indicates Halogen-free part, ex.GBLC03G. • In compliance with EU RoHS 2002/95/EC directives.	SOD-323 Dimensions in inches and (millimeters)
Mechanical data	
• Epoxy:UL94-V0 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	

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(at $T_A=25^{\circ}\text{C}$ unless otherwise noted, $V_F = 0.9\text{V}$ Max. @ $I_F = 10\text{mA}$ for all types)

PARAMETER	CONDITIONS	Symbol	Value	UNIT
Peak power dissipation	$t_p = 8/20 \text{ us}$	P_{PP}	350	W
Storage temperature		T_{STG}	-65~+175	$^{\circ}\text{C}$
Operating temperature		T_J	-55~+150	$^{\circ}\text{C}$

Part No.	V_{RWM} (V) Max	$V_{BR}(V)@I_T$ (Note 2) Min	I_T (mA)	Max. Clamp Voltage @ $I_{PP}=1.0$ (Note 2)(A)	Maximum Campling @ I_{PP}	$I_R(\mu A)$ Leak Current@ V_{RWM} Max	C(pF) (Note 3) Max	Marking Code
GBLC03	3.3	4.0	1.0	7.0	19.0V@20.0A	5	3	C
GBLC03C	3.3	4.0	1.0	7.0	19.0V@20.0A	5	3	CC
GBLC05	5.0	6.0	1.0	9.8	18.3V@17.0A	5	3	A
GBLC05C	5.0	6.0	1.0	9.8	18.3V@17.0A	5	3	AC
GBLC08	8.0	8.5	1.0	13.4	18.5V@17.0A	2	3	B
GBLC08C	8.0	8.5	1.0	13.4	18.5V@17.0A	2	3	BC
GBLC12	12	13.3	1.0	19.0	28.6V@11.0A	1	3	D
GBLC12C	12	13.3	1.0	19.0	28.6V@11.0A	1	3	DC
GBLC15	15	16.7	1.0	24.0	31.8V@10.0A	1	3	E
GBLC15C	15	16.7	1.0	24.0	31.8V@10.0A	1	3	EC
GBLC18	18	18.0	1.0	29.0	45.0V@8.0A	1	3	G
GBLC18C	18	18.0	1.0	29.0	45.0V@8.0A	1	3	GC
GBLC24	24	26.7	1.0	43.0	56.0V@6.0A	1	3	H
GBLC24C	24	26.7	1.0	43.0	56.0V@6.0A	1	3	HC

1. Part numbers with an additional "C" suffix are bi-directional devices, i.e., GBLC03C.
2. Uni-directional only: positife potential is applied from pin 2 to 1, see figure 1
3. Off-state capacitance 1MHz, zero dc bias.



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Rating and characteristic curves

FIG.1 UNI-DIRECTIONAL & BI-DIRECTIONAL

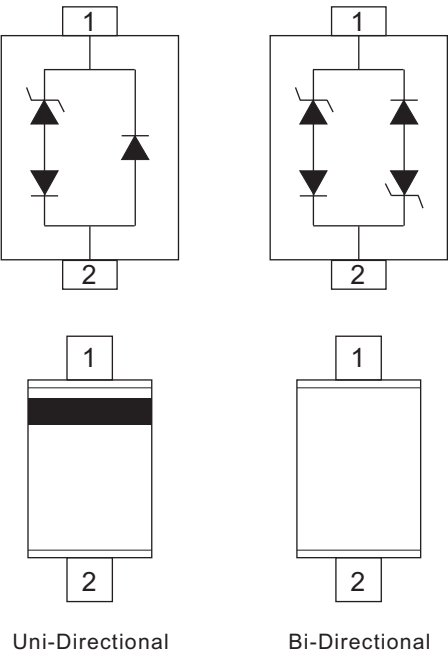


FIG. 2 PULSE WAVE FORM

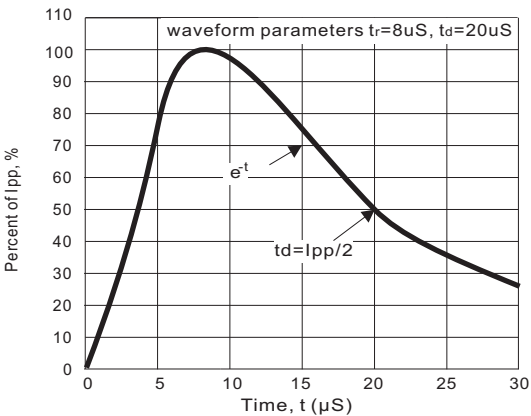


FIG.3 PEAK PULSE POWER VS PULSE TIME

