

GBLC03I* thru GBLC24CI*

DEVICE CHARACTERISTICS

MAXIMUM RATINGS @ 25°C Unless Otherwise Specified

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power ($t_p = 8/20\mu s$) - See Figure 1	P_{PP}	350	Watts
Operating Temperature	T_J	-55°C to 150°C	°C
Storage Temperature	T_{STG}	-55°C to 150°C	°C

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified

PART NUMBER (See Notes 1-2)	DEVICE MARKING	RATED STAND-OFF VOLTAGE V_{WM} VOLTS	MINIMUM BREAKDOWN VOLTAGE @ 1mA $V_{(BR)}$ VOLTS	MAXIMUM CLAMPING VOLTAGE (See Fig. 2) @ $I_p = 1A$ V_C VOLTS	MAXIMUM CLAMPING VOLTAGE (See Fig. 2) @ 8/20 μs V_C @ I_{PP}	MAXIMUM LEAKAGE CURRENT @ V_{WM} I_b μA	TYPICAL CAPACITANCE 0V @ 1 MHz C pF
GBLC03I	C	3.0	4.0	5.15	13.9V @ 15.0A	5	0.6
GBLC03CI	CC	3.0	4.0	5.15	13.9V @ 15.0A	5	0.6
GBLC05I	A	5.0	6.0	9.8	18.3V @ 17.0A	5	0.6
GBLC05CI	AC	5.0	6.0	9.8	18.3V @ 17.0A	5	0.6
GBLC08I	B	8.0	8.5	13.4	18.5V @ 17.0A	2	0.6
GBLC08CI	BC	8.0	8.5	13.4	18.5V @ 17.0A	2	0.6
GBLC12I	D	12.0	13.3	19.0	28.6V @ 11.0A	1	0.6
GBLC12CI	DC	12.0	13.3	19.0	28.6V @ 11.0A	1	0.6
GBLC15I	E	15.0	16.7	24.0	31.8V @ 10.0A	1	0.6
GBLC15CI	EC	15.0	16.7	24.0	31.8V @ 10.0A	1	0.6
GBLC18I	F	18.0	20.0	29.0	45.0V @ 8.0A	1	0.6
GBLC18CI	FC	18.0	20.0	29.0	45.0V @ 8.0A	1	0.6
GBLC24I	H	24.0	26.7	43.0	56.0V @ 6.0A	1	0.6
GBLC24CI	HC	24.0	26.7	43.0	56.0V @ 6.0A	1	0.6

Note 1: Part numbers with an additional "C" suffix are bidirectional devices, i.e., GBLC05CI.

Note 2: *Unidirectional Only:* Positive potential is applied from pin 2 to 1 or pin 3 to 4.

FIGURE 1
PEAK PULSE POWER VS PULSE TIME

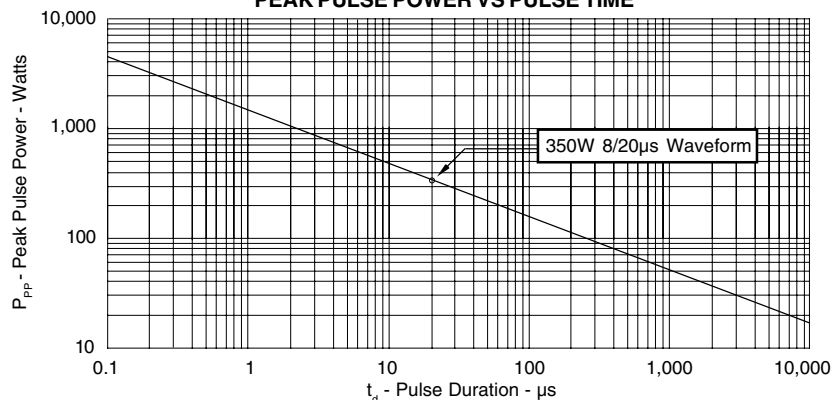
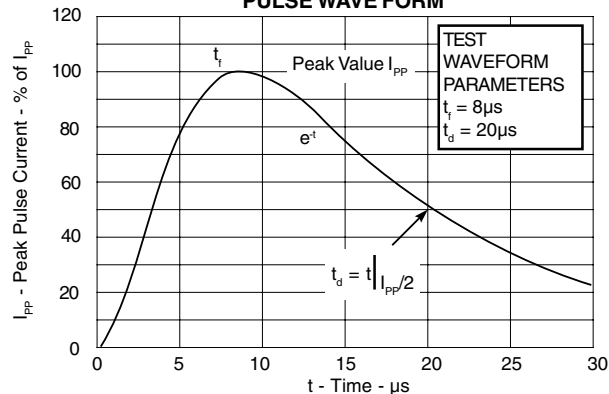
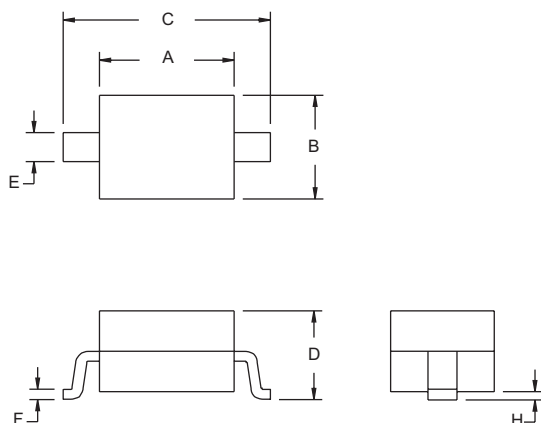
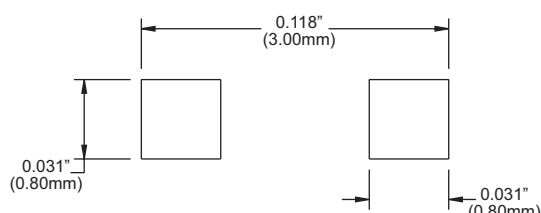


FIGURE 2
PULSE WAVE FORM



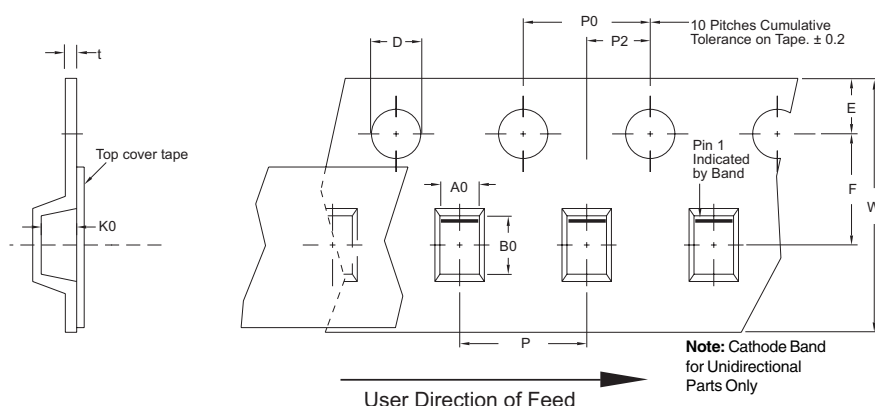
GBLC03I* thru GBLC24CI*

SOT-143 PACKAGE OUTLINE & DIMENSIONS

PACKAGE OUTLINE 	SOD-323 PACKAGE  PACKAGE DIMENSIONS <table><tr><th rowspan="2">DIM</th><th colspan="2">MILLIMETERS</th><th colspan="2">INCHES</th></tr><tr><th>MIN</th><th>MAX</th><th>MIN</th><th>MAX</th></tr><tr><td>A</td><td>1.60</td><td>1.90</td><td>0.063</td><td>0.075</td></tr><tr><td>B</td><td>1.15</td><td>1.45</td><td>0.045</td><td>0.057</td></tr><tr><td>C</td><td>2.39</td><td>2.70</td><td>0.094</td><td>0.106</td></tr><tr><td>D</td><td>0.92</td><td>1.10</td><td>0.033</td><td>0.043</td></tr><tr><td>E</td><td>0.25</td><td>0.40</td><td>0.010</td><td>0.016</td></tr><tr><td>F</td><td>0.10</td><td>0.20</td><td>0.004</td><td>0.008</td></tr><tr><td>H</td><td>-</td><td>0.10</td><td>-</td><td>0.004</td></tr></table>	DIM	MILLIMETERS		INCHES		MIN	MAX	MIN	MAX	A	1.60	1.90	0.063	0.075	B	1.15	1.45	0.045	0.057	C	2.39	2.70	0.094	0.106	D	0.92	1.10	0.033	0.043	E	0.25	0.40	0.010	0.016	F	0.10	0.20	0.004	0.008	H	-	0.10	-	0.004
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MOUNTING PAD 	NOTES 1. Controlling Dimensions in Millimeters. 2. Dimensions are exclusive of mold flash and metal burrs. TAPE & REEL ORDERING NOMENCLATURE 1. Surface mount product is taped and reeled in accordance with EIA-481. 2. Suffix-T7 = 7 Inch Reel - 3,000 pieces per 8mm tape, i.e., <i>GBLC05CI-T7</i>. 3. Suffix - LF = Lead-Free, Pure-Tin Plating, i.e., <i>GBLC05CI-LF-T7</i>. Outline & Dimensions: Rev 2 - 9/05, 06010																																												

Tape & Reel Specifications (Dimensions in millimeters)

Reel Dia.	Tape Width	A0	B0	K0	D	E	F	W	P0	P2	P	tmax
178mm (7")	8mm	1.55 ± 0.10	2.90 ± 0.10	1.35 ± 0.10	1.50 ± 0.10	1.75 ± 0.10	3.50 ± 0.05	8.00 ± 0.30	4.00 ± 0.10	2.00 ± 0.05	4.00 ± 0.10	0.25



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