



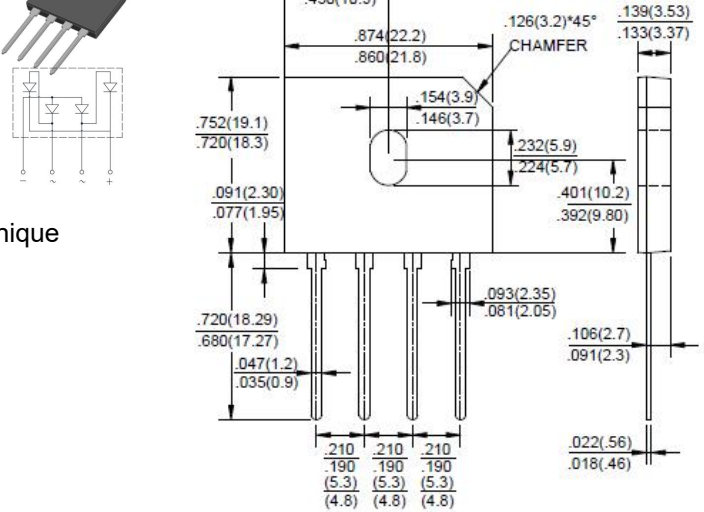
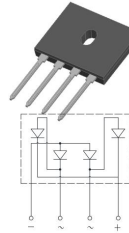
GBU1001 THRU GBU1010

VOLTAGE RANGE 100 to 1000 Volts
CURRENT 10.0 Ampere



Features

- Glass Passivated Bridge Rectifiers
- Reverse Voltage - 100 to 1000Volts
- Forward Current - 8.0Amperes
- Surge overload rating -200 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has U/L flammability classification 94V-0
- Mounting position:Any
- Weight: 0.138 ounces , 3.90grams



Dimensions in inches and (millimeters)

Mechanical Data

- Maximum Ratings and
- Electrical Characteristics
- specified.Single phase, half wave ,60Hz, resistive or inductive
- load.For capacitive load, derate current by 20%

Maximum Ratings and Electrical Characteristics

Package: GBU

- Rating at 25°C ambient temperature unless otherwise

TYPE NUMBER	SYMBOL	GBU 1001	GBU 1002	GBU 1004	GBU 1006	GBU 1008	GBU 1010	UNIT
Maximum Reverse Peak Repetitive Voltage	V_{RRM}	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, 0.06" (1.5mm) lead length at $T_C=100^\circ C$	$I_{(AV)}$	10.0						Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I_{FSM}	200						Amps
Rating for Fusing ($t < 8.3ms$)	I^2t	200						A ² s
Maximum Instantaneous Forward Voltage drop Per Bridge element 5.0A	V_F	1.1						Volts
Maximum Reverse Current at rated DC blocking voltage per element	I_R	10						μ Amps
		500						
Typical Junction Capacitance Per Element (Note1)	C_J	211			94			pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JC}$	4.2						$^\circ C/W$
Mounting Torque (Recommended torque:0.5 N.m)	T_{OR}	0.8						N.m
Operating and Storage Temperature Range	T_J, T_{STG}	(-55 to +150)						$^\circ C$

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
2. Junction to case with heatsink.
3. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw.

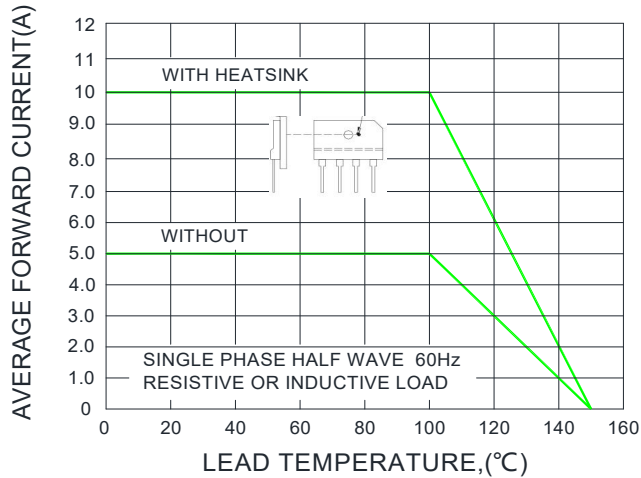


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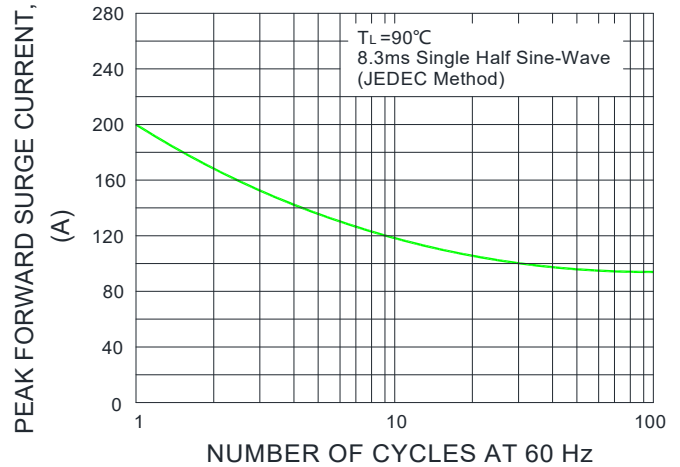
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Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

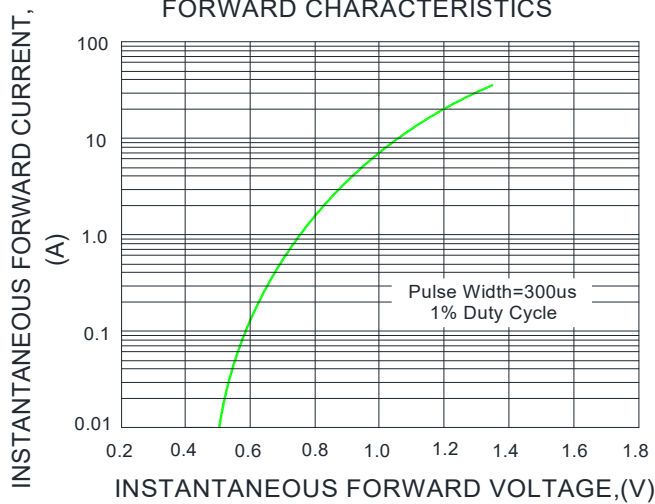
F1G.1-FORWARD CURRENT DERATING CURVE



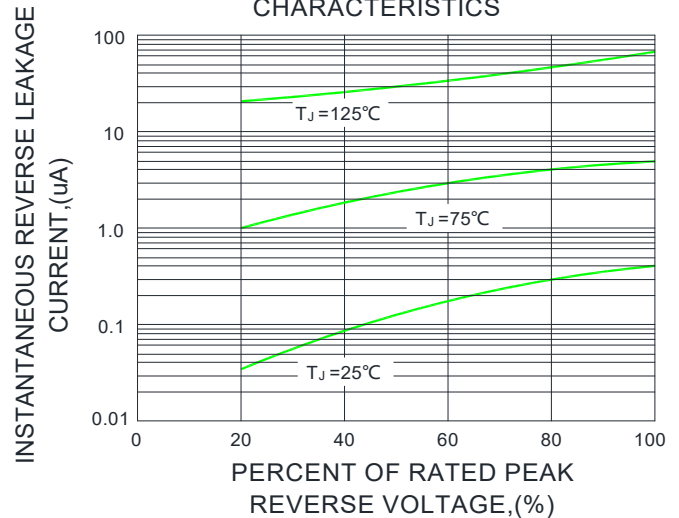
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



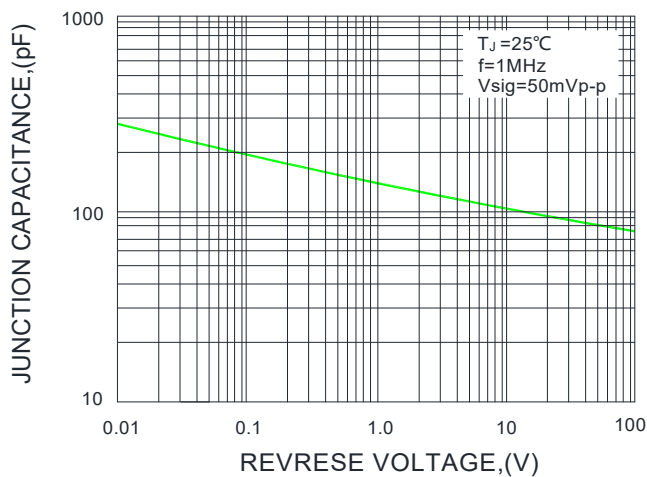
F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE





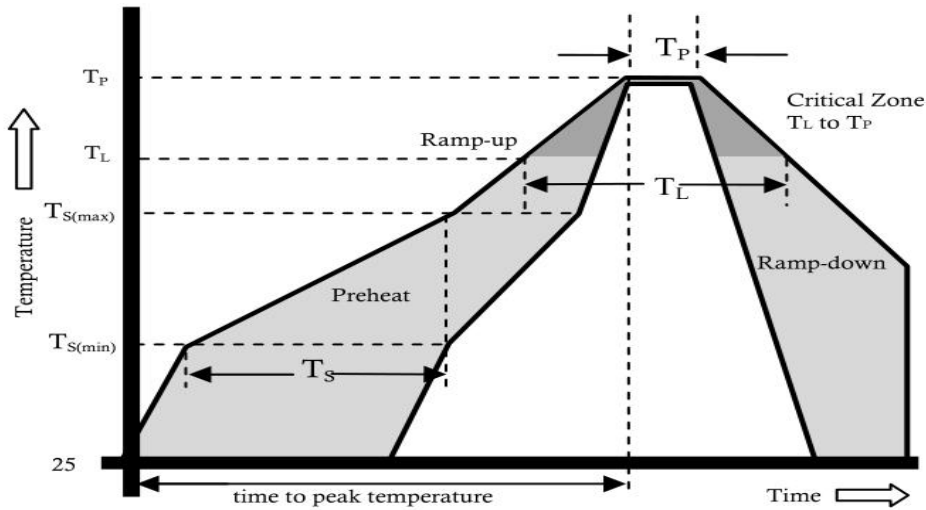
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Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBU1001 THRU GBU1010	B1	Approximate 3.96	20	1000	2000	TUBE

Reflow Profile



Reflow Condition		Pb-Free Assembly
Pre Heat	Temperature Min.	+150°C
	Temperature Max.	+200°C
	Time(Min to Max)	60-180 secs.
Average ramp up rate(Liquidus Temp(T_L) to peak)		3°C/sec. Max.
$T_{S(max)}$ to T_L - Ramp-up Rate		3°C/sec. Max.
Reflow	Temperature (T_L)(Liquidus)	+217°C
	Temperature (T_L)	60-150 secs.
Peak Temp (T_P)		+(260+0/-5)°C
Time within 5°C of actual Peak Temp (T_P)		25 secs.
Ramp-down Rate		6°C/sec. Max.
Time 25°C to peak Temp (T_P)		8 min. Max.
Do not exceed		+260°C



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