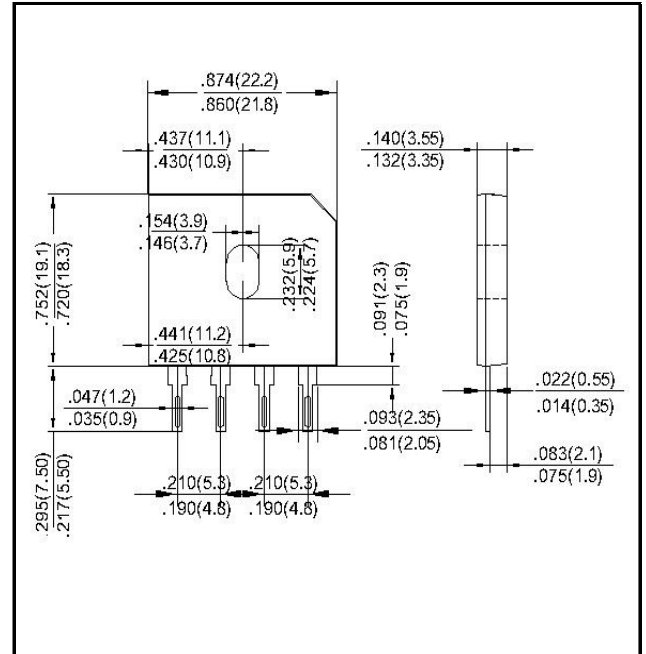


8.0A Single-Phase GLass Passivated Bridge Rectifiers

Recifier Reverse Voltage 50V to 1000V



GBU



Features

- Glass passivated junction
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Suge overload ratings to 200 amperes peak
- Ideal for printed circuit board application
- High temperature soldering guaranteed 265°C/10

Mechanical Data

Case:Molded plastic

Terminals:Platde leads solderable per MIL-STD-750, Method 2026

Polarity:Polarity symbols molded or Marked on body

Mounting Position:Any

Weight:0.138ounce,3.9 grams(approx)

Maximum Ratings & Thermal Characteristics

Dimensions in inches and (millimeters)

Rating at 25°C ambient temperature unless otherwise specified,Resistive or inductive load,60HZ.

For Capacitive load derate current by 20%

Parameter	Symbol	GBU8005	GBU801	GBU802	GBU804	GBU806	GBU808	GBU810	unit	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V	
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V	
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V	
Maximum average forward rectified output current at TA=40°C	IF(AV)	8.0							3.2	A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	200								A
Rating for fusing(t<8.3ms)	I ² t	166								A ² sec
Typical thermal resistance per element(1)	ReJA	2.2								°C/w
Mounting torque(Suggests 045~0.65)	Tor	Rating Torque:0.8(Suggests 045~0.65)								N.m
Typical thermal resistance per element(2)	Cj	60.0								PF
Operating junction and stroage temperature range	TJ, TSTG	-55to+150								°C

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified,Resistive or inductive load,60HZ.

For Capacitive load derate current by 20%

Parameter	Symbol	GBU8005	GBU801	GBU802	GBU804	GBU806	GBU808	GBU810	unit	
Maximum instantaneous forward voltage drop per leg at 4.0A	VF	1.1								V
Maximum DC reverse current at ratde TA=25°C	IR	5								UA
DC blocking voltage per element TA=125°C		500								

Notes:(1)Device mounted on 75mm*75mm*1.6mm Cu plate heatsink.

(2)Measured at 1.0MHz and applied reverse voltage of 4.0 volts.

Rating and Characteristic Curves (TA=25°C Unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

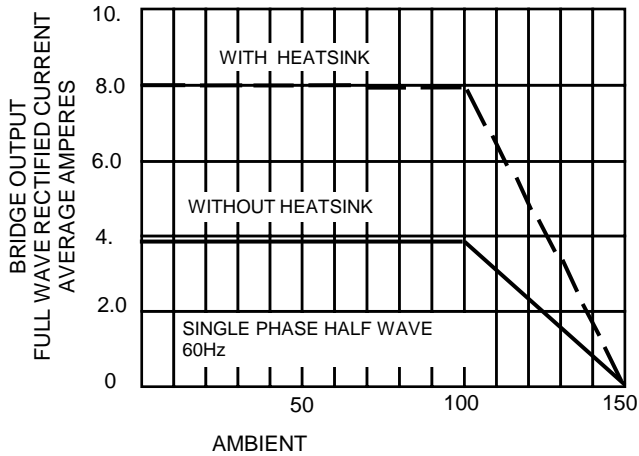


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

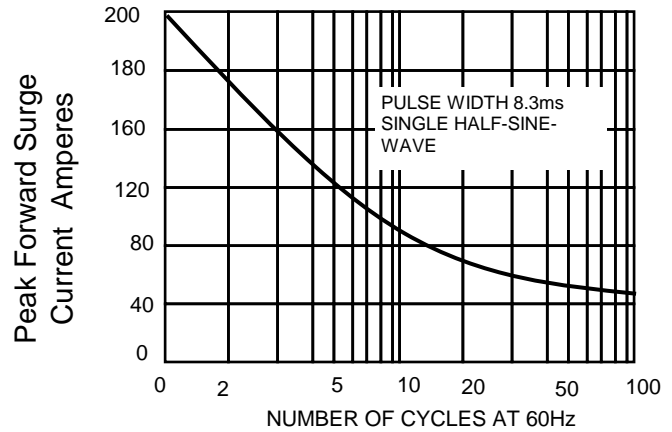


FIG.3-TYPICAL JUNCTION CAPACITANCE

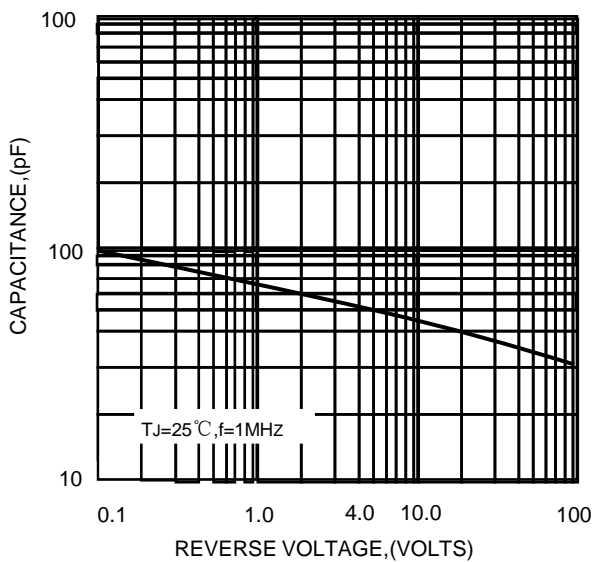


FIG.4-TYPICAL FORWARD CHARACTERISTICS

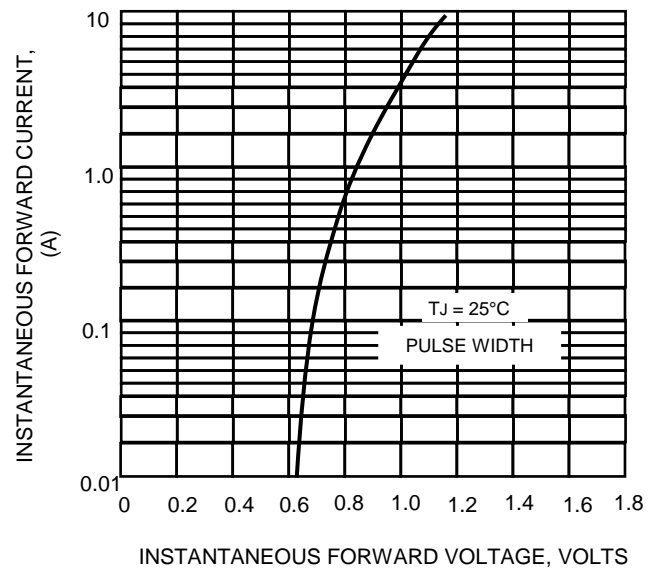


FIG.5-TYPICAL REVERSE CHARACTERISTICS

