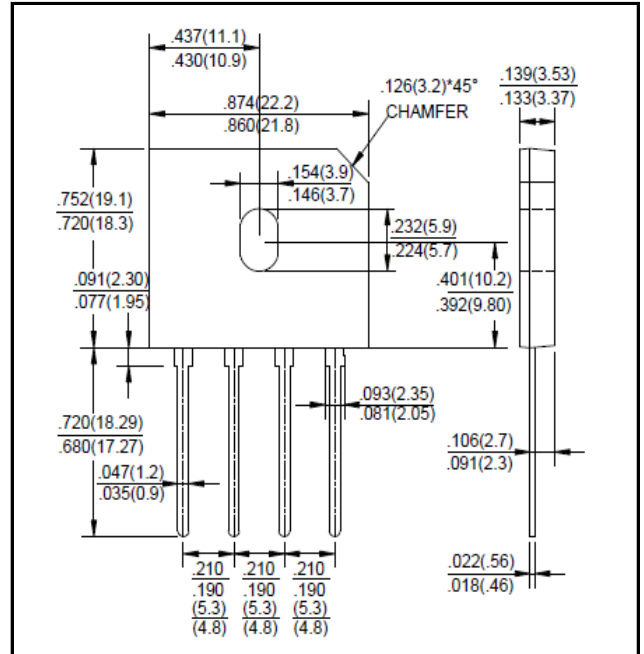


6.0A Single-Phase GLass Passivated Bridge Rectifiers



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 175 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	GBU6A	GBU6B	GBU6D	GBU6G	GBU6J	GBU6K	GBU6M	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)	6.0						2.8		A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	175								A
Rating for fusing (t<8.3ms)	I ² t	127								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	50.0								PF
Operating junction and storage 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	GBU6A	GBU6B	GBU6D	GBU6G	GBU6J	GBU6K	GBU6M	unit	
Maximum instantaneous forward voltage drop per leg at 3.0A	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

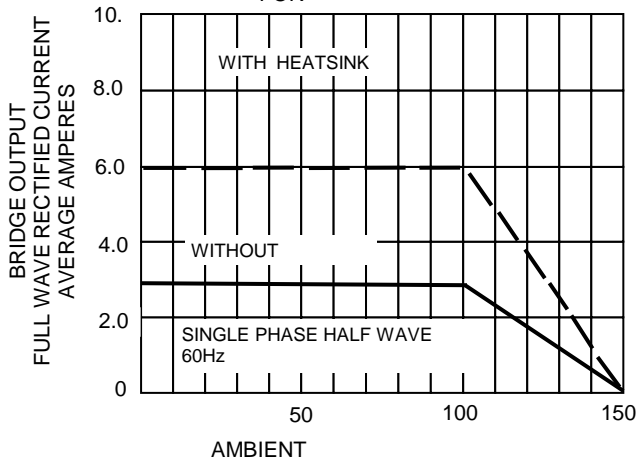


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

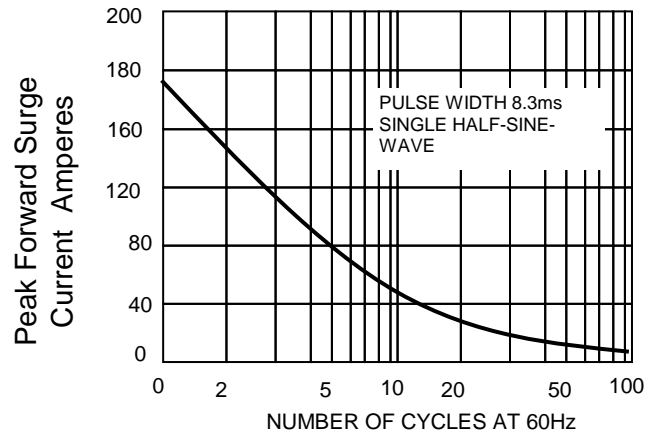


FIG.3-TYPICAL JUNCTION

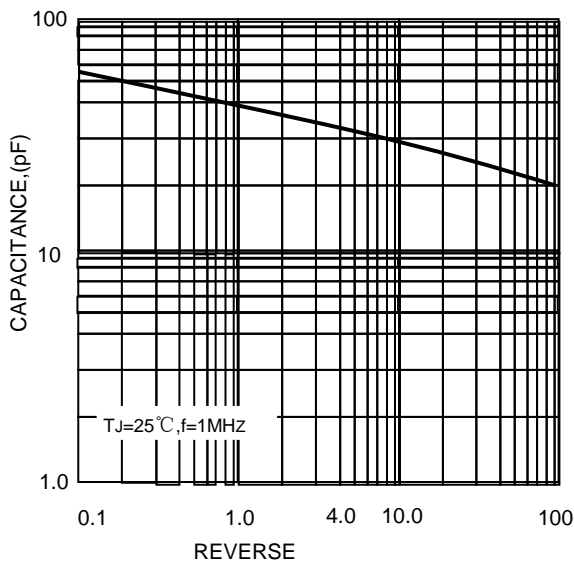


FIG.4-TYPICAL FORWARD CHARACTERISTICS

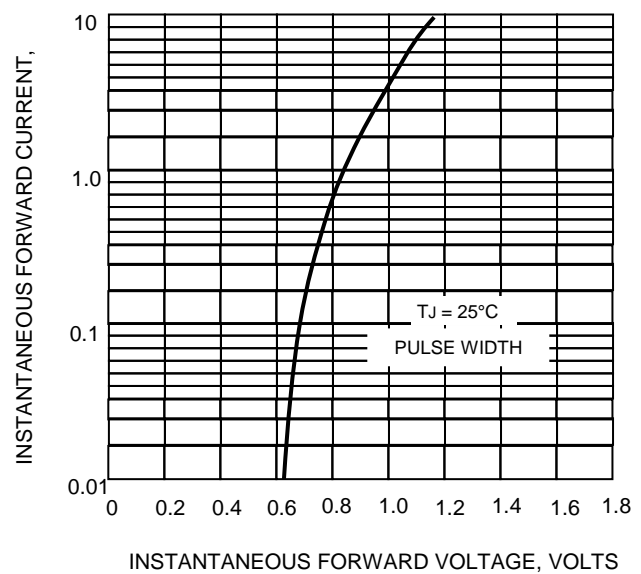


FIG.5-TYPICAL REVERSE CHARACTERISTICS

