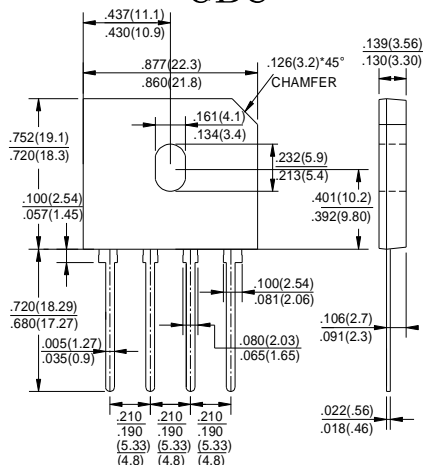


GBU4005 THRU GBU410

GLASS PASSIVATED BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 4.0 Amperes

GBU



Dimensions in inches and (millimeters)

FEATURES

Ideal for printed circuit boards
 Reliable low cost construction technique
 results in inexpensive product
 High temperature soldering guaranteed:
 260°C/10 seconds/0.375" (9.5mm) lead length
 at 5 lbs.,(2.3kg) tension

MECHANICAL DATA

Case: Molded plastic
Lead: Solder plated
Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	GBU4005	GBU401	GBU402	GBU404	GBU406	GBU408	GBU410	UNIT	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V _{RMS}	30	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V	
Maximum Average Forward (with heatsink Note 2) Rectified Current @ T _C =100 (without heatsink)	I _(AV)					4.0				A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}					150				A
Maximum Forward Voltage at 4.0A DC	V _F					1.1				V
Maximum DC Reverse Current @ T _J =25 at Rated DC Blocking Voltage @ T _J =125	I _R					10.0				uA
I ² t Rating for Fusing (t<8.3ms)	I ² t					93				A ² s
Typical Junction Capacitance Per Element (Note1)	C _J					45				pF
Typical Thermal Resistance (Note2)	R _{JC}					2.2				/W
Operating Temperature Range	T _J					-55 to +150				
Storage Temperature Range	T _{STG}					-55 to +150				

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Device mounted on 50mm*50mm*1.6mm cu plate heatsink.

RATINGS AND CHARACTERISTIC CURVES GBU4005 THRU GBU410

FIG.1-FORWARD CURRENT DERATING CURVE

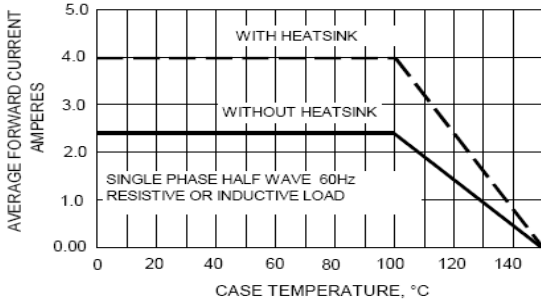


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

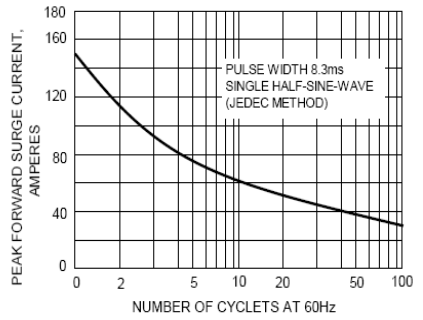


FIG.3-TYPICAL JUNCTION CAPACITANCE

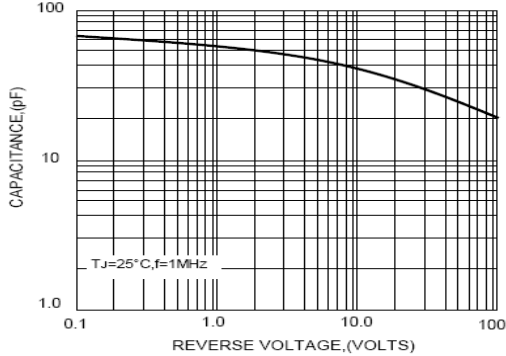


FIG.4-TYPICAL FORWARD CHARACTERISTICS

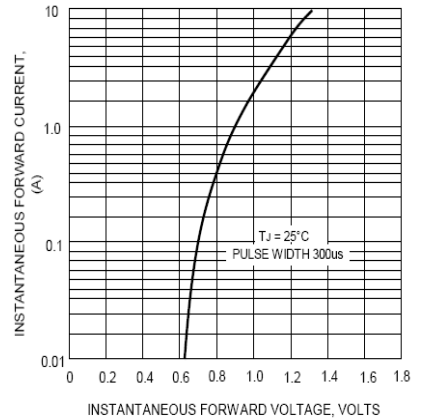


FIG.5-TYPICAL REVERSE CHARACTERISTICS

