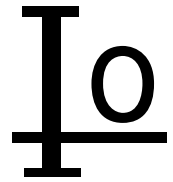


GBL2005 THRU GBL210

SINGLE PHASE 2.0 AMP BRIDGE RECTIFIERS



• Features

- I_o 2A
- V_{RRM} 50V~1000V
- Glass passivated chip
- High surge forward current capability

• Applications

- General purpose 1 phase Bridge
- rectifier applications
- Weight: 2.16grams
- Lead Free Finish/RoHS Compliant

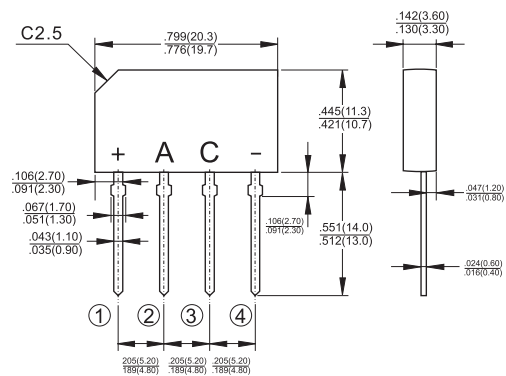
VOLTAGE RANGE

50to1000Volts

CURRENT

2.0Ampere

2GBJ



Dimensions inchesand(millimeters)

■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	GBL2						
				005	01	02	04	06	08	10
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	400	600	800	1000
Average Rectified Output Current	I_o	A	60Hz sine wave, R-load, $T_a=25^{\circ}C$	2.0						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz sine wave, 1 cycle, $T_j=25^{\circ}C$	80						
Current Squared Time	I^2t	A^2S	$1ms \leq t < 8.3ms$ $T_j=25$ $1ms \leq t < 8.3ms$ $T_j=25^{\circ}C$, Rating of per diode	15						
Storage Temperature	T_{stg}	$^{\circ}C$		-55 ~+150						
Junction Temperature	T_j	$^{\circ}C$		-55 ~+150						

■ Electrical Characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=1.0A$, $I_{FM}=1.0A$, Pulse measurement, Rating of per diode	1.1
Peak Reverse Current	I_{RRM}	μA	$V_{RM}=V_{RRM}$, $V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode	10
Thermal Resistance	$R_{\theta J-A}$	$^{\circ}C/W$	Between junction and ambient	47
	$R_{\theta J-C}$		Between junction and lead	10

RATING AND CHARACTERISTIC CURVES (GBL2005 THRU GBL210)

FIG1: I_o - T_a Curve

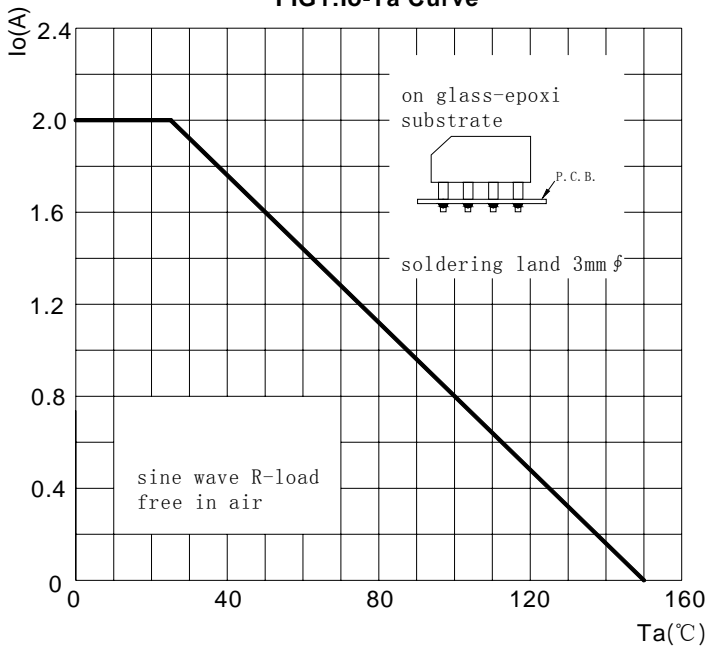


FIG2: Surge Forward Current Capability

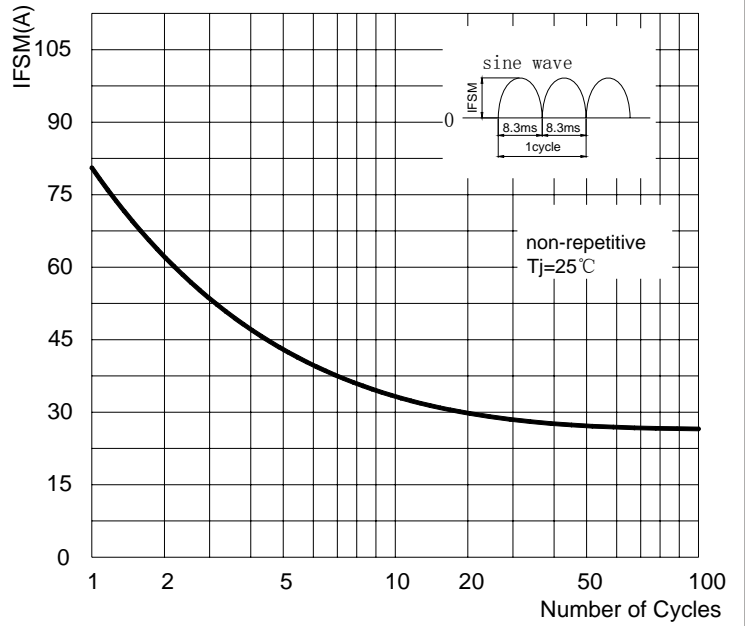


FIG3: Forward Voltage

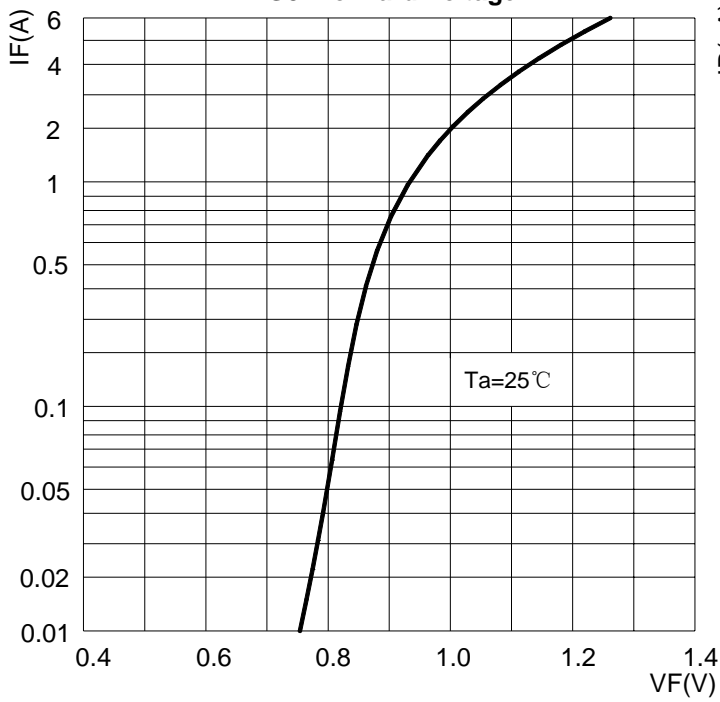


FIG4: Typical Reverse Characteristics

