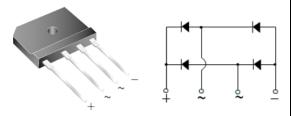


# GBJ1502 thru GBJ1508. Bridge Rectifiers

#### **GBJ**



#### **Features**

- ROHS compliant
- Glass passivated chip
- High forward surge capability
- Meet MSL level 1, per J-STD-020 LF maximum peak of 250 °C
- Solder dip 260 °C / 40S
- Component in accordance to ROHS 2002/95/EC and WEEE 2002/96/WC
- UL recognition, file number E342874

Primary characteristics						
I <sub>F(AV)</sub>	15A					
$V_{RRM}$	200V to 800V					
I <sub>FSM</sub>	200A					
I <sub>RM</sub>	10uA					
V <sub>FM</sub> at I <sub>F</sub> =7.5A	1V					
T <sub>J</sub> max.	150 °C					

#### **Applications**

Ideal for ac-to-dc bridge full wave rectification suck as SMPS, home applianes, office equipment, indusrial automation applicatios

#### **Mechanical data**

- Case: GBJ
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.
- Mounting Torque:10cm-kg(8.8 inches-lbs)max.
- Recommended Torque:5.7 cm-kg(5 inches-lbs)

### Maximum rating (Ta=25°C unless otherwise noted)

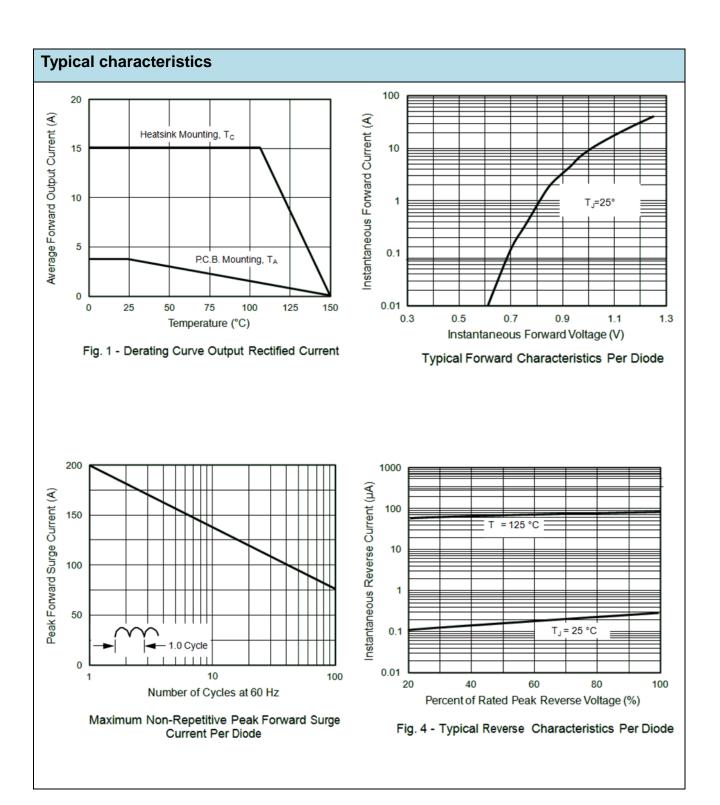
Dovometer		C	GBJ				11!4
Parameter		Sym	1502	1504	1506	1508	Unit
Max. repetitive peak reverse voltage		$V_{RRM}$	200	400	600	800	V
Max. RMS reverse voltage		$V_{RMS}$	140	280	420	560	V
Max. DC blocking voltage		$V_{DC}$	200	400	600	800	V
Max. average forward current		I <sub>F(AV)</sub>	15			Α	
Non-repetitive peak forward surge current			200				_
8.3ms single half-sine-wave		I <sub>FSM</sub>	200				Α
Rating for fusing,1ms ≤ t ≤ 8.3ms		l <sup>2</sup> t	166			A <sup>2</sup> S	
Max. instantaneous forward voltage drop per diode		$V_{FM}$	1(7.5A)			V	
Max. instantaneous reverse current at rated	Ta=25 °C		5			μΑ	
DC blocking voltage	Ta=125 °C	I <sub>RM</sub>	250				μΑ
Operating junction temperature		TJ	-55 ~ <b>+</b> 150		°C		
Storage temperature		T <sub>STG</sub>	-55 ~ <b>+</b> 150		°C		
Thermal resistance junction to ambient (Note 2)		R <sub>J-A</sub>	23		°C/W		
Thermal resistance junction to cover (Note 1)		R <sub>J-C</sub>	1.5			°C/W	

#### Notes

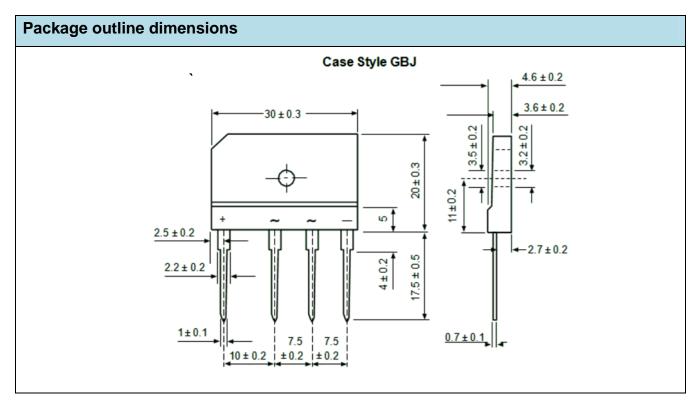
- (1) Unit case mounted on aluminum plate heatsink
- (2) Units mounted on PCB without heatsink



Ordering information (Example)							
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE			
GBJ1506	7.0	45	20	Tube			







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