

GBJ15005 THRU GBJ1510

Reverse Voltage - 50 to 1000 Volts Forward Current - 15.0 Amperes

SILICON BRIDGE RECTIFIERS

Features

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- ◆ Plastic material has U/L lammability classification 94V-0
- ◆ Low forward voltage drop, high current capability

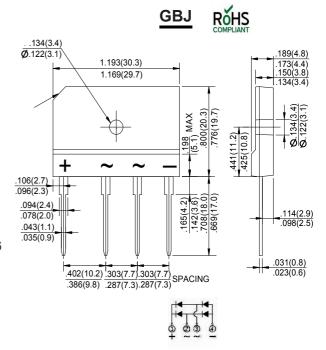
Mechanical Data

Case: JEDEC GBJ Molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbol marking on body

Mounting Position: Any Mounting Torque: 5in-lbs



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwisespecified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	MDD GBJ15005	MDD GBJ1501	MDD GBJ1502	MDD GBJ1504	MDD GBJ1506	MDD GBJ1508	MDD GBJ1510	UNITS
Marking Code									
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS 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(with heatsink NOTE 2) Rectified current @Tc=100°C(without heatsink)	l(AV)	15.0 3.2							Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	240							Α
Rating for Fusing(t<8.3ms)	l²t	240						A ² s	
Maximum forward voltage at 7.5A DC	VF	1.1							V
Maximum DC reverse current TA=25°C	lR	10							uA
at rated DC blocking voltage Ta=125°C	IK	0.5							mΑ
Typical Junction Capacitance (Note 1)	Сл	60							pF
Typical Thermal Resistance (Note 2)	Rejc	0.8							°C/W
Operating junction temperature range	Тı	-55 to +150							° C
storage temperature range	Тѕтс	-55 to +150							° C

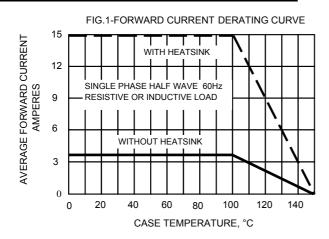
NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

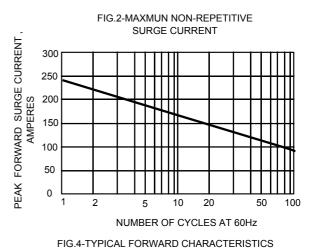
- 2.Device mounted on 300mm*300mm*1.6mm Cu plate heatsink.
- 3. The typical data above is for reference only.

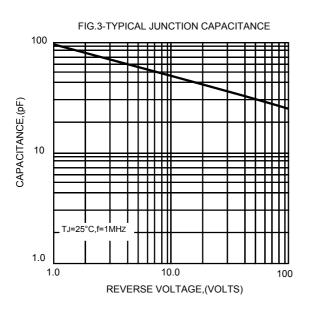
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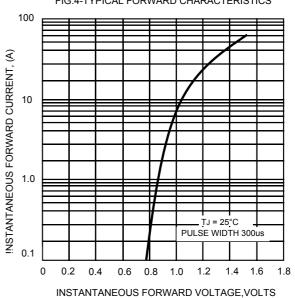
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Ratings And Characteristic Curves

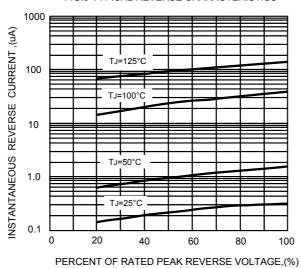












The curve above is for reference only.

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