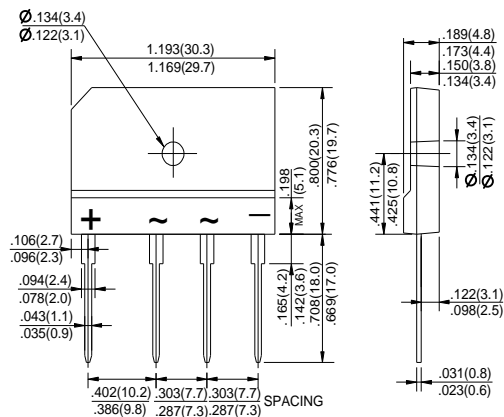


# GBJ35005 THRU GBJ3510

## Bridge Rectifier

Voltage Range - 50 to 1000 Volts Current - 35.0 Ampere

### GBJ/6KBJ



Dimensions in inches and (millimeters)

### FEATURES

- ◆ Glass passivated chip
- ◆ High surge forward current capability

### MECHANICAL DATA

Case: Molded plastic body

Lead: Solder plated

Polarity: As marked

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

#### Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	GBJ35						
				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	With heatsink $T_c = 100^\circ\text{C}$						
				Without heatsink $T_a = 25^\circ\text{C}$						
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	60Hz sine wave, 1 cycle, $T_j = 25^\circ\text{C}$	400						
Current Squared Time	$I^2t$	$\text{A}^2\text{S}$	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j = 25^\circ\text{C}$ , Rating of per diode	664						
Storage Temperature	$T_{stg}$	$^\circ\text{C}$		-55 ~ +150						
Junction Temperature	$T_j$	$^\circ\text{C}$		-55 ~ +150						
Dielectric Strength	$V_{dis}$	KV	Terminals to case, AC 1 minute	2.5						
Mounting Torque	Tor	kg · cm	Recommend torque: 5kg · cm	8						

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

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	$V_{FM}$	V	$I_{FM} = 17.5\text{A}$ , Pulse measurement, Rating of per diode	1.1
Peak Reverse Current	$I_{RRM}$	$\mu\text{A}$	$V_{RM} = V_{RRM}$ , Pulse measurement, Rating of per diode	10
Thermal Resistance	$R_{\theta J-A}$	$^\circ\text{C/W}$	Between junction and ambient, Without heatsink	22
	$R_{\theta J-C}$		Between junction and case, With heatsink	0.8

# RATINGS AND CHARACTERISTIC CURVES GBJ35005 THRU GBJ3510

