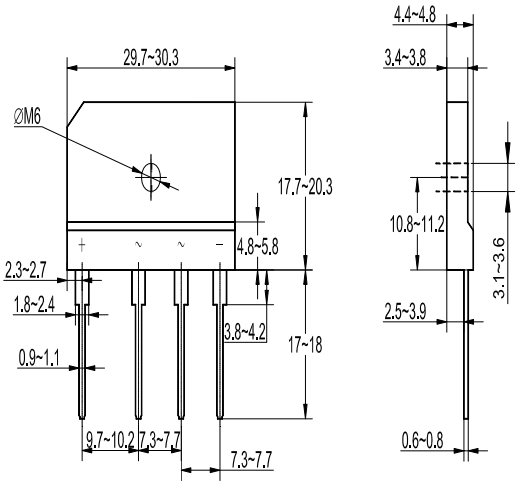
GBJ6005 THRU GBJ610

Glass Passivated Single-Phase Bridge Rectifier
Reverse Voltage: 50 to 1000 V
Forward Current: 6 A

GBJ



Dimensions in (mm)

Features
- Glass passivated chip junction
- High surge current capability

Mechanical data
- Case:Molded plastic, GBJ
- Epoxy: UL 94V-0 rate flame retardant
- Mounting Position: Any

Absolute Maximum Ratings and Characteristics
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	GBJ 6005	GBJ 601	GBJ 602	GBJ 604	GBJ 606	GBJ 608	GBJ 610	Units
	Marking	GBJ6005	GBJ601	GBJ602	GBJ604	GBJ606	GBJ608	GBJ610	V
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current with Heatsink at T_C = 100 °C	$I_{(AV)}$	10							A
Peak Forward Surge Current, 8.3 ms Single Half-Sine -Wave superimposed on rated load (JEDEC Method)	I_{FSM}	150							A
Maximum Forward Voltage at 3 A DC	V_F	1.05							V
Maximum Reverse Current T_a = 25 °C at Rated DC Blocking Voltage T_a = 125 °C	I_R	10 500							μA
Typical Thermal Resistance form Junction to Ambient	$R_{\theta JA}$	26							°C/W
Typical Thermal Resistance form Junction to Case	$R_{\theta JC}$	3.4							°C/W
Operating and Storage Temperature Range	T_J, T_{Stg}	- 55 to + 150							°C

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