

GBJ3502~GBJ3510

GUERTE

Glass Passivated Single-Phase Bridge Rectifier

Features

• Ideal for printed circuit board

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- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High temperature soldering: 260°C/10 seconds at terminals



Major Ratings and Characteristics

I _{F(AV)}	35 A				
V _{RRM}	200V to 1000V				
I _{FSM}	400A				
I _R	1QıA				
V _F	1.1 V				
T _i max.	150 °C				

• Case: GBJ Molded plastic

Mechanical Date

- over glass passivated chir
- Terminals:Plated leads solderable per MIL-STD-750,Method 2026
- Polarity: Polarity symbols marked on body

Maximum Ratings & Thermal Characteristics (T_A = 25 °C unless otherwise noted)

Items	Symbol	GBJ 3502	GBJ 3504	GBJ 3506	GBJ 3508	GBJ 3510	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	200	400	600	800	1000	V
Maximum average forward rectified current at $T_{C}\text{=}55^\circ\!\!\mathbb{C}$	I _{F(AV)}	35.0				А	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	400				А	
Thermal resistance from junction to case per leg	${\sf R}_{\theta JC}{}^{(1)}$	1.0				°C/W	
I ² t Rating for Fusing (t<8.3ms)	l ² t	660			A ² s		
RMS isolation voltage from case to leads	V _{ISO}	2500			V		
Operating junction and storage temperature range	T _J ,T _{STG}	-55 to +150			°C		

Note 1: Junction to case with heatsink

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

Items	Test conditions		Symbol	Min	Туре	Мах	UNIT
Instantaneous forward voltage per leg	I _F =17.5A		V _F	-	-	1.10	V
Reverse current per leg	V _R =V _{DC}	T _j =25℃ T _i =125℃	I _R	-	-	10 500	μA



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Characteristic Curves (T_A=25 °C unless otherwise noted)



Fig.2 Maximum Non-Repetitive Peak Forward Surge Current 400



Fig.3 Typical Instantaneous Forward Characteristics 100 Instantaneous Forward current(A) 10 1 0.6 0.8 1.0 1.2 1.4

Instantaneous Forward Voltage(V)



Fig.4 Typical Reverse Leakage Characteristics





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Package Outline



Dimensions in inches (mm)