

GBJ35005I THRU GBJ3510I

35.0AMP Glass Passivated Bridge Rectifier

1. Features

- Glass passivated die construction
- Low forward voltage drop
- · High current capability
- High surge current capability

2. Mechanical Data

- Case:Molded Plastic,GBJ.
- Epoxy:UL 94V-0 rate flame retardant.
- Terminals:Plated Leads Solderable per MIL-STD-750,Method-2026.
- Marking:marked on body.



3. Maximum Ratings and Electrical Characteristics

Electrical Characteristics Rating at 25 $^\circ\!\!\mathbb{C}$ ambient temperature unless otherwise specified.

DADAMETED	SYMBOL	GBJ35005I	GBJ3501I	GBJ3502I	GBJ3504I	GBJ3506I	GBJ3508I	GBJ3510I	UNIT
PARAMETER	Code	GBJ35005	GBJ3501	GBJ3502	GBJ3504	GBJ3506	GBJ3508	GBJ3510	
Maximum Recurrent 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
Average Rectified(with heatsink)@Tc=100°COutput Current(without heatsink)@Ta=25°C	IF(AV)	35 3.6					A		
Peak Forward Surge Current 8.3ms @Tj=25°C		450							
Single half sine-wave superimposed @Tj=125°C	IFSM	360					А		
on rated load (JEDEC Method)									
I^2 t Rating for Fusing (t < 8.3ms)	l ² t	840				A ² S			
Maximum Instantaneous Forward Voltage @IF=17.5A	Vfm	1.05					V		
Maximum DC reverse current @Tj=25°C		5.0			uA				
at rated DC blocking voltage @Tj=125°C	IK	200							
Dielectric Strength	Vids	2500				V			
The proposed installation torque Max torque	Tor	Тур. 5.0 Мах 8.0				Kgf.cm			
Typical Junction Capacitance (Note 1)	Cj	140				pF			
	Reja	18							
Typical Thermal Resistance	Rejl	1.5					°C/W		
	Rejc	0.8							
Operating Temperature Range	Tj	-55 to+150				°C			
Storage Temperature Range	Tstg	-55 to+150			°C				

Note:

1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



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4. Rating And Characteristic Curves











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5. Dimensions





Dimonsions	Inc	hes	Millimeters		
Dimensions	Min	Max	Min	Max	
А	1.169	1.193 29.7		30.3	
В	0.425	0.441	0.441 10.8		
С	0.075	0.091	1.9	2.3	
D	0.035	0.043	0.9	1.1	
E	0.354	0.433	9.0	11.0	
F	0.287	0.303	7.3	7.7	
G	0.699	0.709	17.0	18.0	
Н	0.150	0.165	3.8	4.2	
I	0.776	0.799	19.7	20.3	
J	0.189	0.205	4.8	5.2	
К	0.173	0.189	4.4	4.8	
L	0.134	0.150	3.4	3.8	
М	0.122	0.134 3.1		3.4	
N	0.173	0.189 4.4		4.8	
0	0.094	0.110 2.4		2.8	
Р	0.020	0.028 0.5		0.7	

6. Part Marking System



7. Package Information

Package	Miniimum Package	Inner Box	Outer Carton	Delivery
	(pcs)	Quantity(pcs)	Quantity(pcs)	Mode
GBJ	15	180	1800	Tube



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