

GB.T

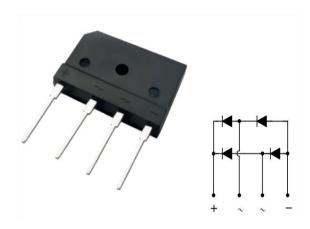
20.0AMP Glass Passivated Bridge Rectifier

1.Features

- Glass Passivated Die Construction
- · Low forward voltage drop
- · High surge current capability
- · High 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

Rating at 25° C ambient temperature unless otherwises pecified Single phase,half wave,60Hz,resistive or inductive load For capacitive load derate current by 20%

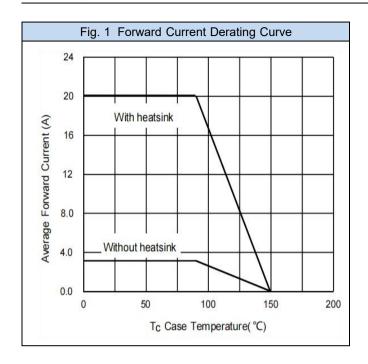
Type Number		Symbol	GBJ 20005	GBJ 2001	GBJ 2002	GBJ 2004	GBJ 2006	GBJ 2008	GBJ 2010	Unit
Peak Repetitive Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage		V_{DC}								
RMS Reverse Volta	age	V_{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current	(with heatsink)@T _C =100℃		20 3.5					А		
	(without heatsink)@T _A =25°C	I _{F(AV)}								
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) @T _J =25°C @T _J =125°C		I _{FSM}	320 256					А		
I ² t Rating for fusing (t <8.3ms)		l ² t	425					A^2s		
Forward Voltage per element @I _F =10A @I _F =20A		V_{FM}	1.0 1.1				V			
Peak Reverse Current @T _J =25 °C At Rated DC Blocking Voltage @T _J =125 °C		I _R	5 200				uA			
Dielectric Strength		Vids	2500					V		
The proposed installation torque Max torque		Tor	Typ.5 Max.8					Kgf.cm		
Typical Junction Capacitance (Note 1)		CJ	75					pF		
Typical Thermal Resistance		$R_{\theta JA}$	22							
		$R_{\theta JL}$	2					°C/W		
		$R_{\theta JC}$	1.5							
Operating Temperature Range		T _J	-55 to+150				$^{\circ}\!\mathbb{C}$			
Storage Temperature Range		T _{STG}	-55 to+150				$^{\circ}$			
Note:		•	•							•

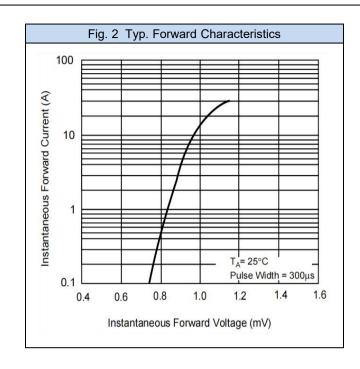
Note:

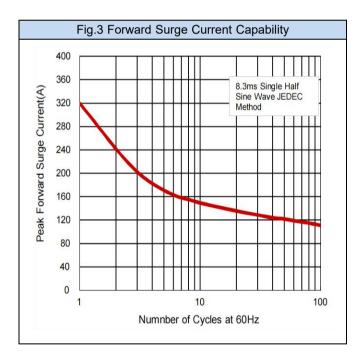
1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C

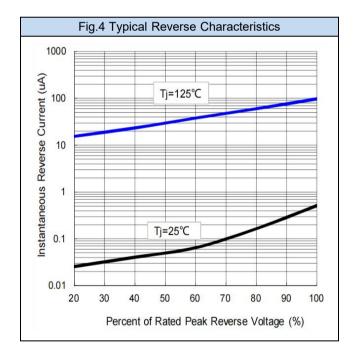
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4. Rating And Characteristic Curves





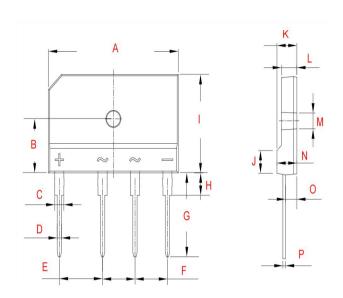






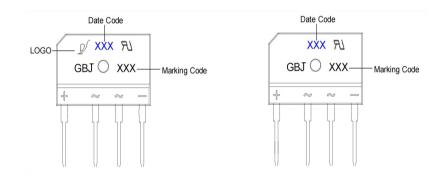
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5. Dimensions



Dimensions	Inc	hes	Millimeters		
Dimensions	Min	Max	Min	Max	
Α	1.169	1.193	29.70	30.30	
В	0.425	0.441	10.80	11.20	
С	0.075	0.091	1.90	2.30	
D	0.035	0.043	0.90	1.10	
E	0.354	0.433	9.00	11.00	
F	0.287	0.303	7.30	7.70	
G	0.669	0.709	17.00	18.00	
Н	0.150	0.165	3.80	4.20	
I	0.776	0.799	19.70	20.30	
J	0.189	0.205	4.80	5.20	
K	0.173	0.189	4.40	4.80	
L	0.134	0.150	3.40	3.80	
M	0.122	0.134	3.10	3.40	
N	0.173	0.189	4.40	4.80	
0	0.094	0.110	2.40	2.80	
Р	0.020	0.028	0.50	0.70	

6. Part Marking System



7. Package Information

Package	Miniimum	InnerBox	OuterCarton	Delivery
	Package (pcs)	Quantity(pcs)	Quantity(pcs)	Mode
GBJ	15	180	1800	Tube



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