

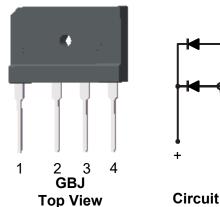


Feature

- > Rating to 1000V PRV
- > Ideal for printed circuit board
- > Reliable low cost construction utilizing molded plastic technique
- > Plastic material has U/L
- > The flammability classification 94V-0



➤ Polarity : Symbols molded on body ➤ Weight: 0.24 ounces, 6.79 grams



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Circuit Diagram

PIN	DESCRIPTION		
1	Output Anode (+)		
2	Input Pin (~)		
3	Input Pin (~)		
4	Output Cathode (-)		

Absolute maximum rating & Electrical Characteristics @25°C

Parameter		Symbol	PGBJ 6005	PGBJ 601	PGBJ 602	PGBJ 604	PGBJ 606	PGBJ 608	PGBJ 610	Units
Maximum Repetitive 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(with heatsink Note 2)		I _(AV)	6.0						А	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Super Imposed on Rated Load (JEDEC Method)		I _{FSM}	150						А	
Rating for fusing		l²t	127					A ² s		
Maximum Forward Voltage at 3A DC		V _F	1.0					V		
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _J = 25 ℃		5.0							
	T _J = 125 ℃	I _R	500						- μΑ	
Typical Junction Capacitance ¹⁾		CJ	55						pF	
Typical Thermal Resistance ²⁾		$R_{\theta JC}$	3.4					°C/W		
Operating and Storage Temperature Range		$T_{J_i}T_{STG}$	-55~+150					°C		

Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

Device mounted on 75mm*75mm*1.6mm Cu Plate Heat sink

Typical Characteristics

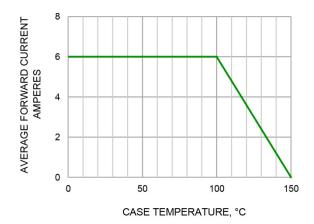
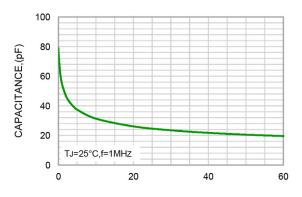


FIG.1-FORWARD CURRENT DERATING CURVE



REVERSE VOLTAGE, (VOLTS)

FIG.3-TYPICAL JUNCTION CAPACITANCE

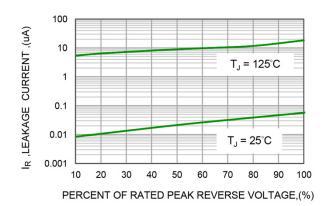


FIG.5-TYPICAL REVERSE CHARACTERISTICS

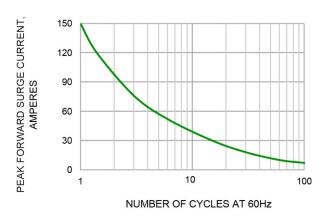


FIG.2-MAXIMUM FOWARD SURGE CURRENT

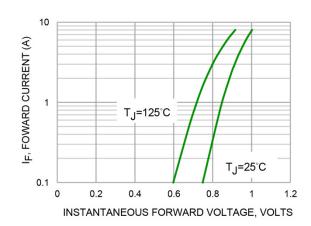
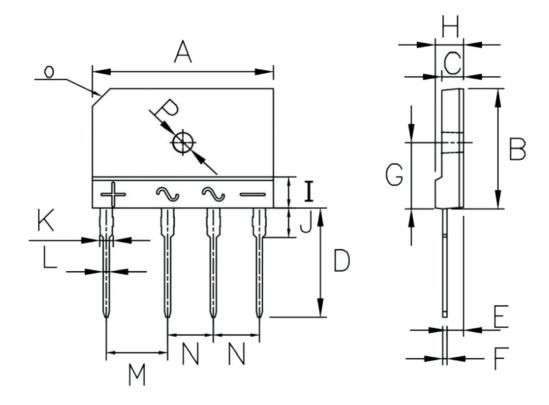


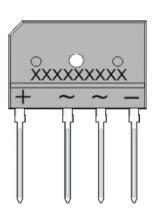
FIG.4-TYPICAL FORWARD CHARACTERISTICS

Product Dimension (GBJ)



Dim	Millimeters		Inches		
Dim	Min	Max	Min	Max	
Α	29.70	30.30	1.169	1.193	
В	19.70	20.30	0.776	0.799	
С	3.40	3.80	0.134	0.150	
D	17.00	18.00	0.669	0.709	
E	2.50	2.90	0.098	0.114	
F	0.55	0.80	0.022	0.031	
G	10.80	11.20	0.425	0.441	
Н	4.40	4.80	0.173	0.189	
I	4.80	5.80	0.189	0.228	
J	3.80	4.20	0.150	0.165	
K	2.00	2.40	0.079	0.094	
L	0.90	1.15	0.035	0.045	
М	9.80	10.20	0.386	0.402	
N	7.30	7.70	0.287	0.303	
0	C3.0		C0.118		
Р	φ3.00	φ3.60	φ0.118	φ0.142	

Marking information



Type number	Marking code
PGBJ6005	GBJ6005
PGBJ601	GBJ601
PGBJ602	GBJ602
PGBJ604	GBJ604
PGBJ606	GBJ606
PGBJ608	GBJ608
PGBJ610	GBJ610

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