

Maximum Ratings (Ta=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GBU6005	GBU600	GBU600	GBU600	GBU600	GBU600	GBU600	GBU601
Device marking code			GBU6005	GBU601	GBU602	GBU604	GBU606	GBU608	GBU610	
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000	
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700	
Maximum DC blocking Voltage	VDC	V	50	100	200	400	600	800	1000	
Average rectified output current @60Hz sine wave, R-load	With heatsink Tc =125	IO	A	6.0						
	Without heatsink Ta =25			2.8						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Tj=25	IFSM	A	150							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			300							
Current squared time @1ms t 8.3ms Tj=25 , Rating of per diode	I ² t	A ² S	93.4							
Storage temperature	Tstg		-55 ~ +150							
Junction temperature	Tj		-55 ~ +150							
Dielectric strength @ Terminals to case, AC 1 minute	Vdis	KV	2.5							
Mounting torque @Recommend torque 5kg cm	Tor	kg cm	8							



Electrical Characteristics $T_a=25^\circ\text{C}$

PARAMETER	SYMBOL
Maximum instantaneous forward voltage drop per diode	V_F
Maximum DC reverse current at rated DC blocking voltage per diode	I_R
Typical junction capacitance	C_j

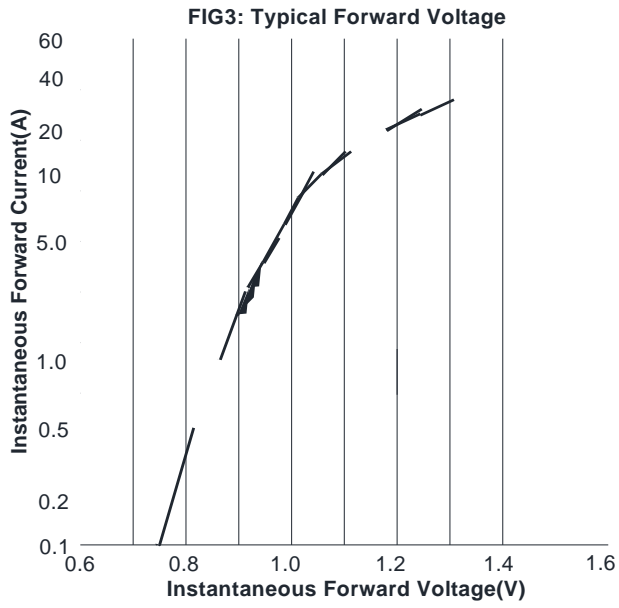
Thermal Characteristics $T_a=25^\circ\text{C}$

PARAMETER			
Thermal Resistance	Between junction and ambient, Without heatsink	R J-A	/W
	Between junction and case, With heatsink	R J-C	

Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

Ordering Information (Example) ○ † R





Outline Dimensions

GBU		
Dim	Min	Max
A	21.80	22.30
B	18.30	18.80
C	17.50	18.00
D	3.30	3.90
E	7.10	7.50
F	5.50	5.90
G	1.91	2.54
H	2.06	2.54
I	1.02	1.27
J	4.83	5.33
K	3.30	3.56
L	2.40	2.66
M	0.46	0.56



GBU6005 THRU GBU610

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