- UL recognition, file #E230084
- Glass passivated chip junction
- Thin single in-line package
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

General purpose use in AC/DC bridge full wave rectification for switching power supply, home appliances, office equipment, industrial automation applications.

- : 6KBJ
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- : Tin plated leads, solderable per J-STD-002 and JESD22-B102
- As marked on body

■ (T_a=25 Unless otherwise specified

Device marking code				GBJ5010D
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	V	1600
Maximum RMS Voltage		V_{RMS}	V	1120
Maximum DC blocking Voltage		V_{DC}	V	1600
Average rectified output current @60Hz sine wave, R-load,	With heatsink Tc =50	I_O	A	50.0
	Without heatsink Ta =25			5.2
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25		I_{FSM}	A	500
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25				1000
Current squared time @1ms≤t≤8.3ms Tj=25 , Rating of per diode		I^2t	A^2s	1037.5
Storage temperature		T_{stg}		-55 ~ +150
Junction temperature		T_j		

■ T_a=25 Unless otherwise specified

Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=25A	1.1
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	T_j =25	5
			T_j =125	500
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	160

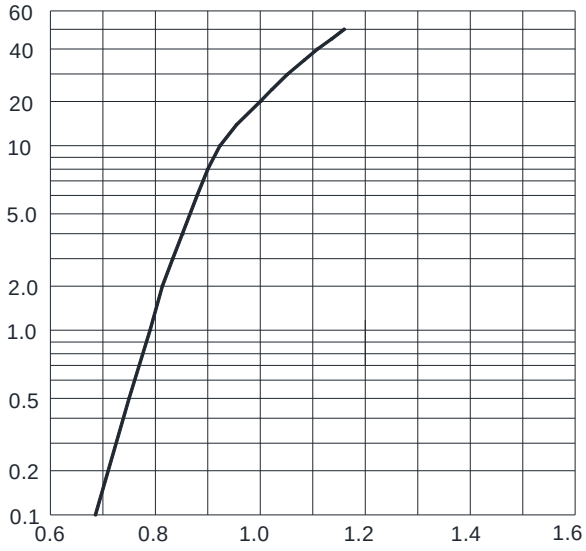
■ T_a=25 Unless otherwise specified

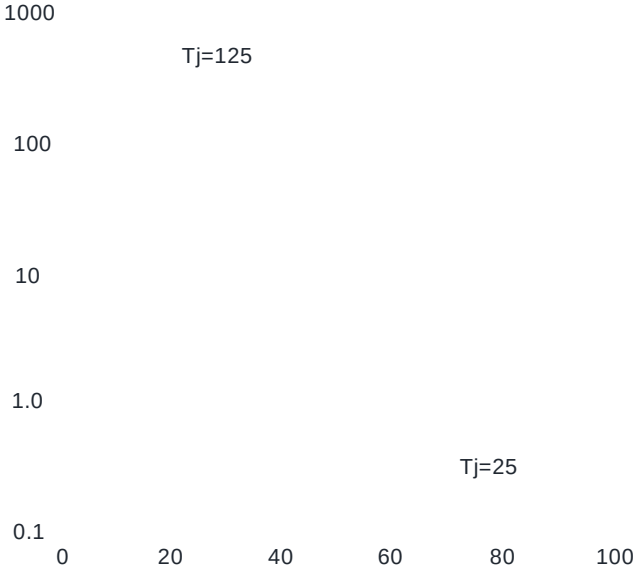
Thermal Resistance	Between junction and ambient, Without heatsink	$R_{\theta J-A}$	/W	18.0
	Between junction and case, With heatsink	$R_{\theta J-C}$		1.0

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

■ (Example)

GBJ5010D	B1	Approximate 6.5	15	750	1500	TUBE





■

Dim	Min	Max
A	29.7	30.3
B	19.7	20.3
C	17.0	18.0
D	4.8	5.8
E	3.8	4.2
F	7.3	7.7
G	9.8	10.2
H	0.9	1.1
I	2.0	2.4
J	2.3	2.7
K	3.4	3.8
L	4.4	4.8
M	10.8	11.2
N	3.1	3.7
O	3.1	3.4
P	0.6	0.8

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