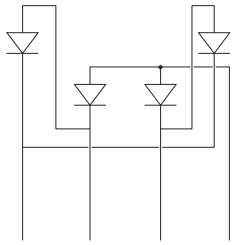
RoHS
COMPLIANT



- 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			GBJ6005	GBJ601	GBJ602	GBJ604	GBJ606	GBJ608	GBJ610
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V_{DC}	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, With heatsink T_C =125	I_O	A	6.0						
Average Rectified Output Current @60Hz sine wave, R-load, Without heatsink T_a =25	I_O	A	3.5						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25	I_{FSM}	A	175						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25	I_{FSM}	A	350						
Current squared time @1ms≤t≤8.3ms Tj=25 , Rating of per diode	I^2t	A^2s	127						
Storage temperature	T_{stg}		-55 ~ +150						
Junction temperature	T_j		-55 ~ +150						
Dielectric strength @ Terminals to case, AC 1 minute	V_{dis}	KV	2.5						
Mounting torque @Recommend torque 5kg cm	Tor	kg cm	8						

■ T_a=25 Unless otherwise specified

Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=3.0A	1.0						
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	T_j=25	5						
			T_j=125	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	53						

■ T_a=25 Unless otherwise specified

				18						
				2						

sink.

[redacted]

[redacted]

■

Dim	Min	Max
[redacted]	29.7	30.3
B	19.7	[redacted]

[redacted]

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