

GBP3005 THRU GBP310

CURRENT 3.0 A
VOLTAGE 50 to 1000 V

Features

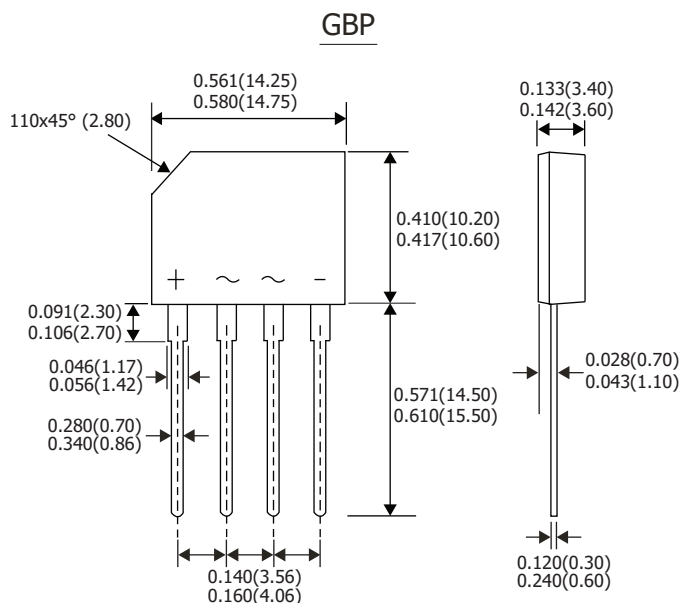
- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability
- Meet UL flammability classification 94V-0

Mechanical Data

- Polarity : Symbol marked on body
- Mounting position: Any

Applications

- General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc.



Package outline dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive load. For capacitive load, derate by 20%)

Items	Symbols	GBP 3005	GBP 301	GBP 302	GBP 304	GBP 306	GBP 308	GBP 310	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 rectified current @T _A =50°C (Note1)	I _(AV)	3.0							A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	75							A
I ² t Rating for fusing (t<8.3ms)	I ² t	23.3							A ² s
Peak forward voltage per diode at 3A DC	V _F	1.1							V
Matimum DC Reverse Current DC Blocking voltage per diode	T _J =25°C	10.0							μA
	T _J =100°C	1.0							mA
Operating junction temperature range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

Note: Mounting conditions, 0.5" lead length maximum

RATINGS AND CHARACTERISTIC CURVES GBP3005 THRU GBP310

FIG.1-FORWARD CURRENT DERATING CURVE

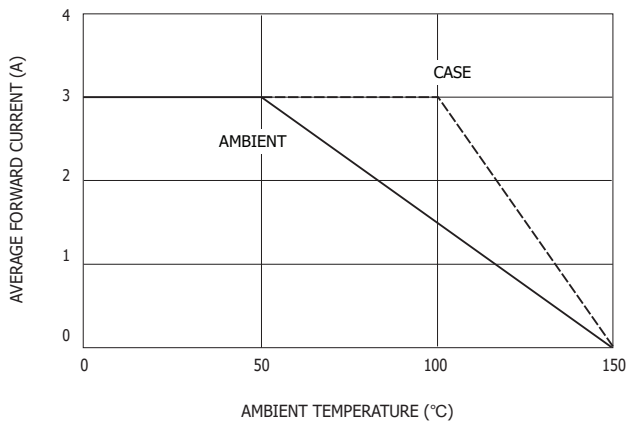


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

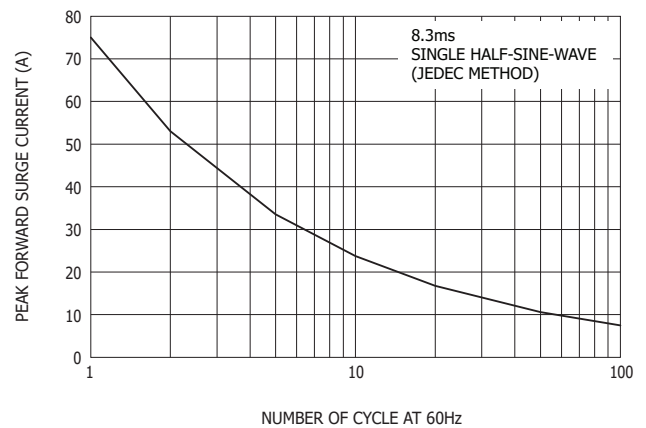


FIG.3-TYPICAL REVERSE CHARACTERISTICS

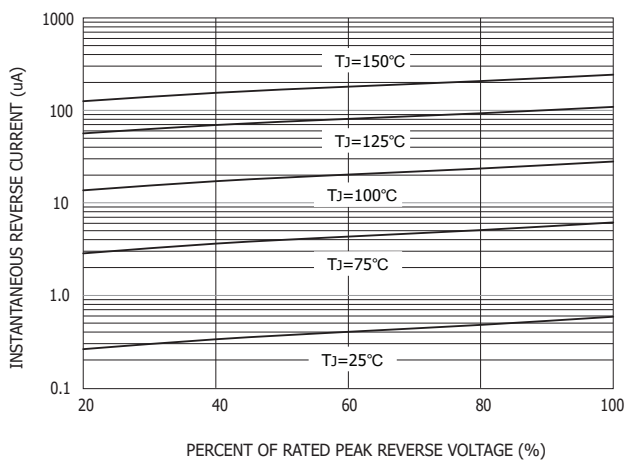
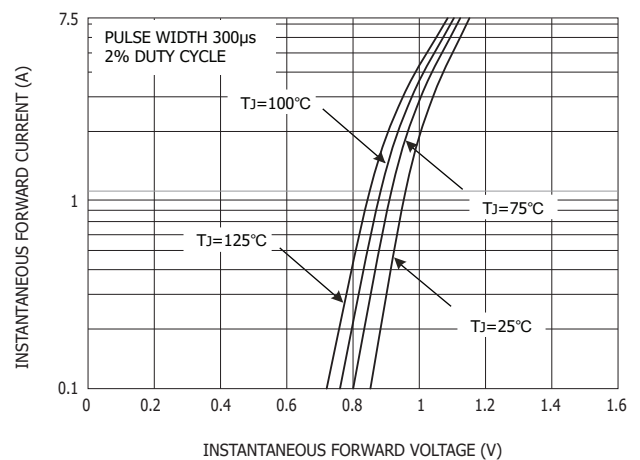


FIG.4-TYPICAL FORWARD CHARACTERISTICS



alldatasheet.com

<https://alldatasheet.com/>

alldatasheet.com