

GBPC35005-GBPC3510

Technical Data Data Sheet N1762, Rev. A Green Products

GBPC35005-GBPC3510

Single-Phase 35.0A Glass Passivated Bridge Rectifier

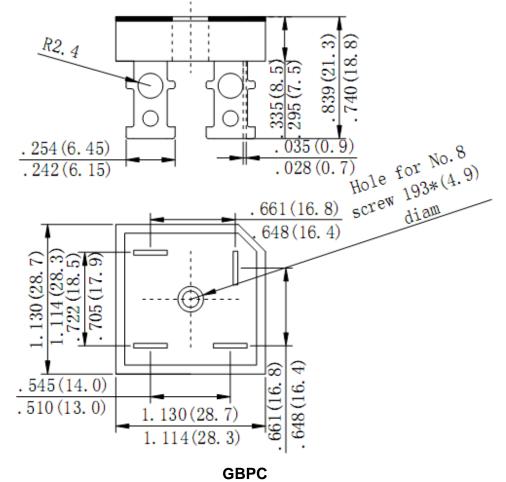
Features:

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0

Mechanical Data:

- Case: GBPC, Molded plastic
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Polarity: As marked on case
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version

Mechanical Dimensions: In Inches/mm



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Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	Symbol	GBPC 35005	GBPC 3501	GBPC 3502	GBPC 3504	GBPC 3506	GBPC 3508	GBPC 3510	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _{DC}	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average forward rectified output current (Note 1) $@T_A = 55^{\circ}C$	Ι _Ο	35.0							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	400							A
Forward Voltage (per element) @I _F =17.5A	V_{FM}	1.1							V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	I _R	5.0 500							μA
Typical Junction Capacitance(per leg) (Note 2)	CJ	300							pF
Typical Thermal Resistance (per leg)	$R_{ extsf{ heta}JL}$	2.2						°C/W	
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C
Case Style	GBPC								

Note: 1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

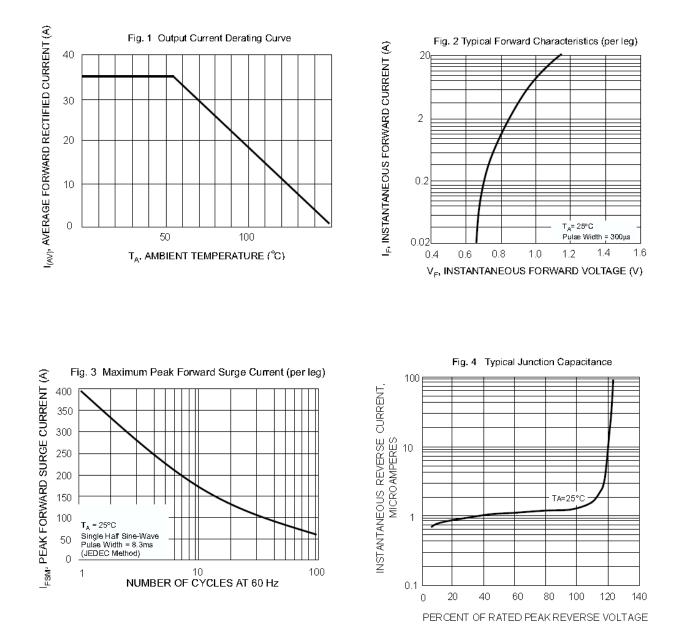
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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