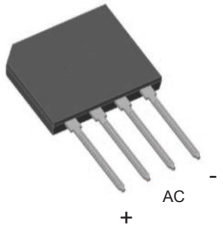
GSKBP201 thru GSKBP210

General Purpose Bridge Rectifiers
Reverse Voltage 100V to 1000V Forward Current 2A

Features

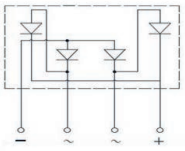
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High current capability
- Low forward voltage drop
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU



KBP

Mechanical Data

- Case: KBP molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750, method 2026
- Mounting position: Any



Schematic Diagram

Applications

Used in AC/DC bridge full wave rectification for SMPS, lighting ballaster, adapter, charger, home appliances, office equipment and telecommunication applications.

Maximum Ratings and Electrical Characteristics

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

Parameters		Symbol	GSKBP 201	GSKBP 202	GSKBP 204	GSKBP 206	GSKBP 208	GSKBP 210	Unit
Maximum Reverse Peak Reverse Voltage		V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage		V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V_{DC}	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current, (See Fig 2)		$I_{F(AV)}$	2.0						A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load		I_{FSM}	60						A
Rating for Fusing (t=8.3ms)		I^2t	14.94						A^2S
Maximum Instantaneous Forward Voltage at 1.0A DC		V_F	0.95						V
Maximum DC Reverse Current at Rated DC blocking Voltage	T_J=25℃	I_R	5						μA
	T_J=125℃		100						μA
Typical Junction Capacitance[1]		C_J	22						pF
Typical Thermal Resistance, Junction-Ambient		$R_{\theta JA}$	45						℃/W
Typical Thermal Resistance, Junction-Case		$R_{\theta JC}$	5						℃/W
Operating Temperature Range		T_J	-55 to +150						°C
Storage Temperature Range		T_{STG}	-55 to +150						°C

Notes:

1. Measured at 1MHz and applied reverse voltage of 4.0 Volts.

Ratings and Characteristics Curves

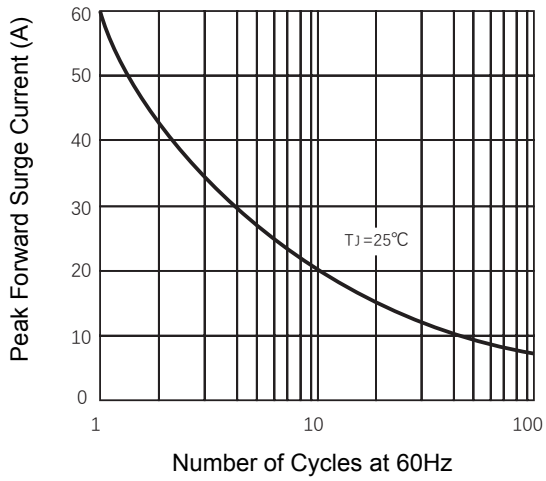


Figure 1. Maximum Forward Surge Current

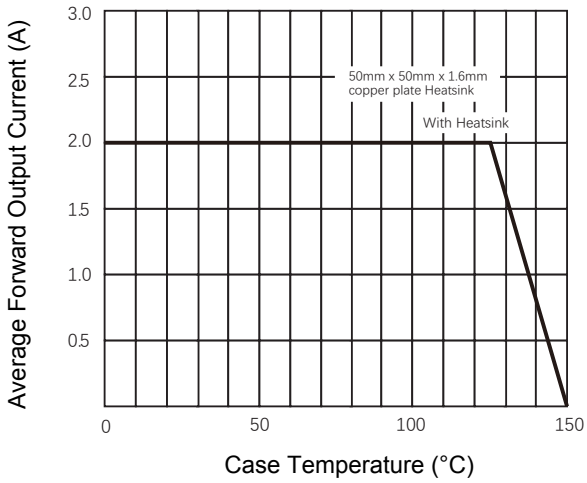


Figure 2. Forward Current Derating Curve

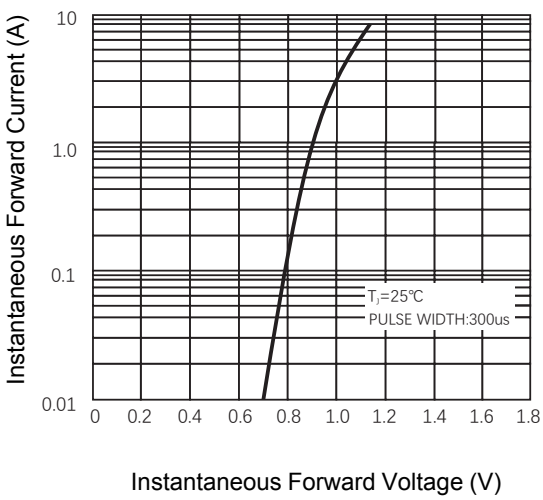


Figure 3. Typical Forward Characteristics

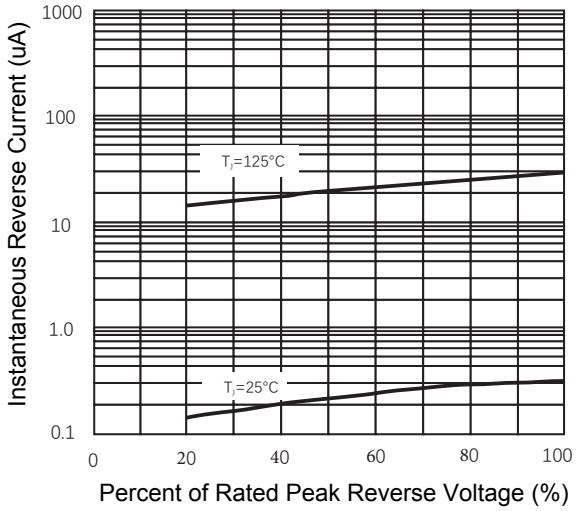
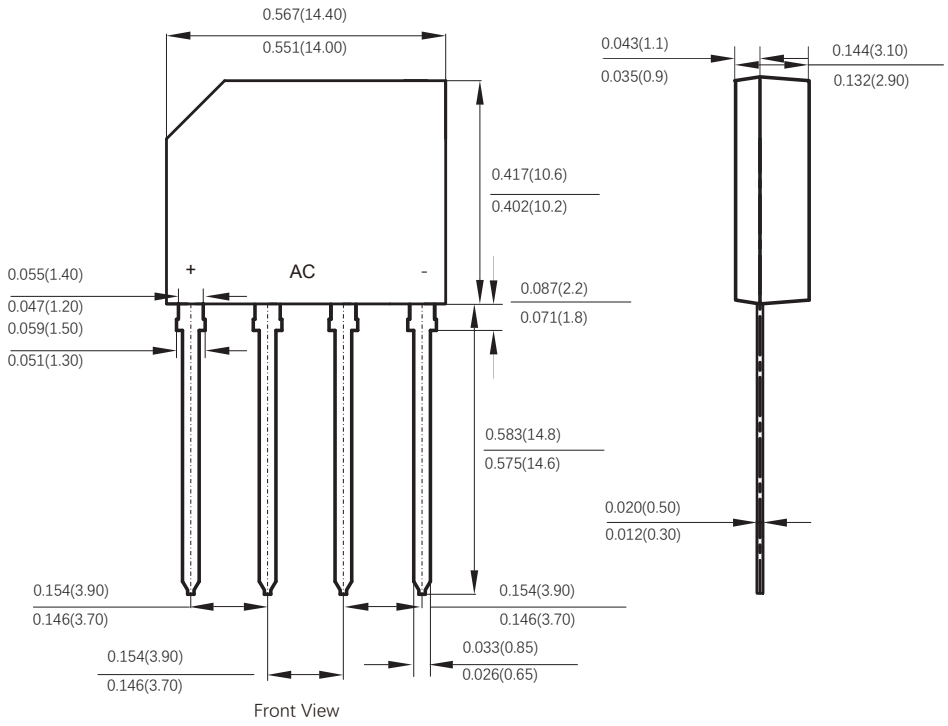


Figure 4. Typical Reverse Characteristics

Package Outline Dimensions (KBP)



Dimensions in inches and (millimeters)