

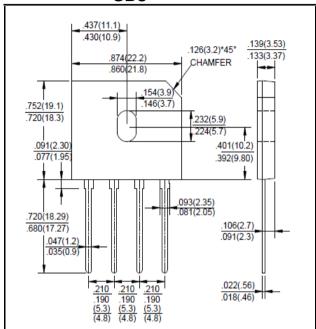
GBU10KL

Low VF Glass Passivated Bridge Rectifiers Reverse Voltage - 800 Volts Forward Current - 10 Amperes





GBU



Package Outline Dimensions in Inches (Millimeters)



Features

- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability

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.

Maximum Ratings and Electrical Characteristics

Rating at 25 ℃ ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	GBU10KL	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	800	V
Maximum RMS Voltage	VRMS	560	V
Maximum DC Blocking Voltage	VDC	800	V
Maximum Average Forward Rectified Current (with heatsink Note 2)	I(AV)	10.0	А
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	220	А
Superimposed on Rated Load (JEDEC Method)		220	
I ² t Rating for Fusing (t<8.3mS)	l ² t	239	A ² s
Peak Forward Voltage per Diode at 5A DC	VF	0.92	V
Maximum DC Reverse Current at Rated @T $_{ extsf{J}}$ =25 $^{\circ}$ C	lr	5.0	
DC Bolcking Voltage per Diode @TJ=125℃		100	μA
Typical Junction Capacitance per Diode (Note1)	CJ	70	pF
Typical Thermal Resistance to Ambient (Note2)	Rеja	25	
Typical Thermal Resistance to case (Note2)	Rejc	2	°C/W
Typical Thermal Resistance to lead (Note2)	Røjl	1.5	
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Tstg	-55 to +150	$^{\circ}$

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

- 2.Device mounted on 100mm*100mm*1.6mm Cu plate heatsink.
- 3. The typical data above is for reference only





Rating and Characteristic Curves

Fig. 1 - Forward Current Derating Curve

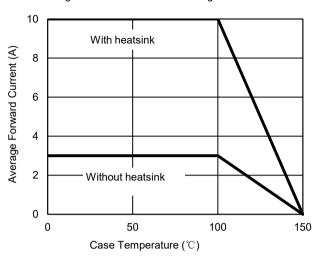


Fig. 3 - Typical Reverse Characteristics

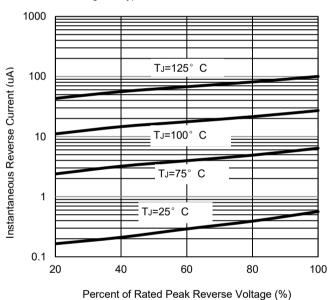


Fig. 2 - Maximum Non-Repetitive Surge Current

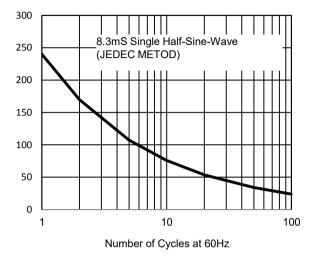


Fig. 4 - Typical Forward Characteristics

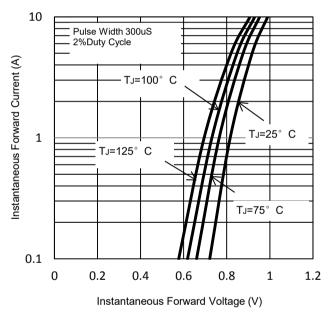


Fig. 5 - Typical Junction Capacitance

Peak Forward Surge Current (A)

