

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

GBK15A THRU GBK15M

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 15 Amperes

FEATURES

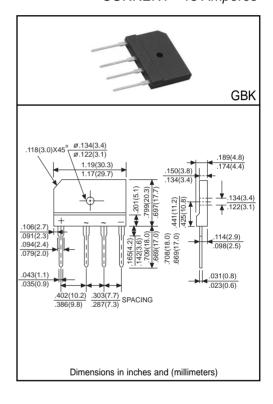
- * Ideal for printed circuit board
- * Surge overload rating: 240 Amperes peak
- * Glass passivated junction

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Symbols molded or marked on body
- * Mounting position: Any

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 current by 20%.



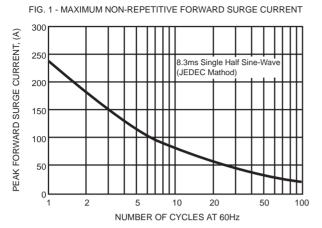
		SYMBOL	GBK15A	GBK15B	GBK15D	GBK15G	GBK15J	GBK15K	GBK15M	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward (with heatsink Note 2) Rectified Current @Tc=50°C (without heatsink)		I(AV)	15 3.2							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	240							Amps
Maximum Forward Voltage Drop per element at 7.5A DC		VF	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	@TJ = 25°C	lr .	10							μAmps
	@TJ = 125°C		500						μπιτιρδ	
I ² t Rating for Fusing (t<8.3ms)		I ² t	240							A ² Sec
Typical Junction Capacitance (Note1)		CJ	60							pF
Typical Thermal Resistance (Note 2)		RθJC	0.8							°C/W
Operating Temperature Range		TJ	-55 to +150							°C
Storage Temperature Range		Тѕтс	-55 to +150							°C

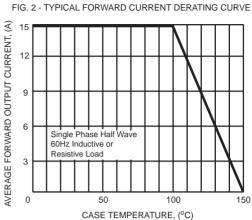
NOTES: 1.Measured at 1 MHz and applied reverse voltage of 4.0 volts

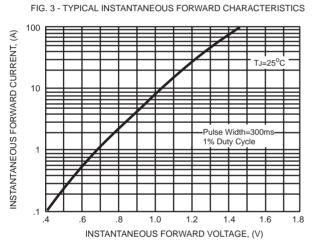
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^{2.}Thermal Resistance from Junction to Case per element Unit mounted on 100x100x1.6mm Cu plate heat-sink.

RATING AND CHARACTERISTIC CURVES (GBK15A THRU GBK15M)







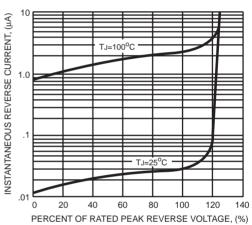
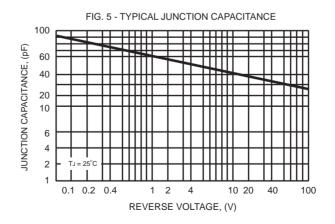


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



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