DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

THRU GBK15M

GBK15A

TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

FEATURES

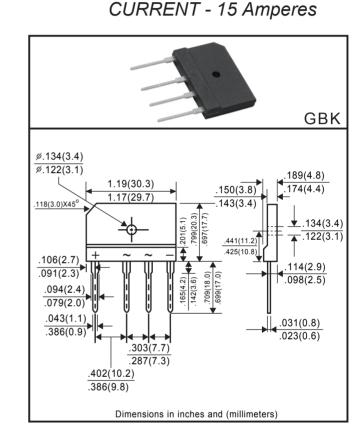
- * High forward surge capability
- * High capability
- * High current capability
- * Low forward voltage drop
- * Glass passivated junction

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94-V0 rate flame retardant
- * Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 6.5 gram

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%.

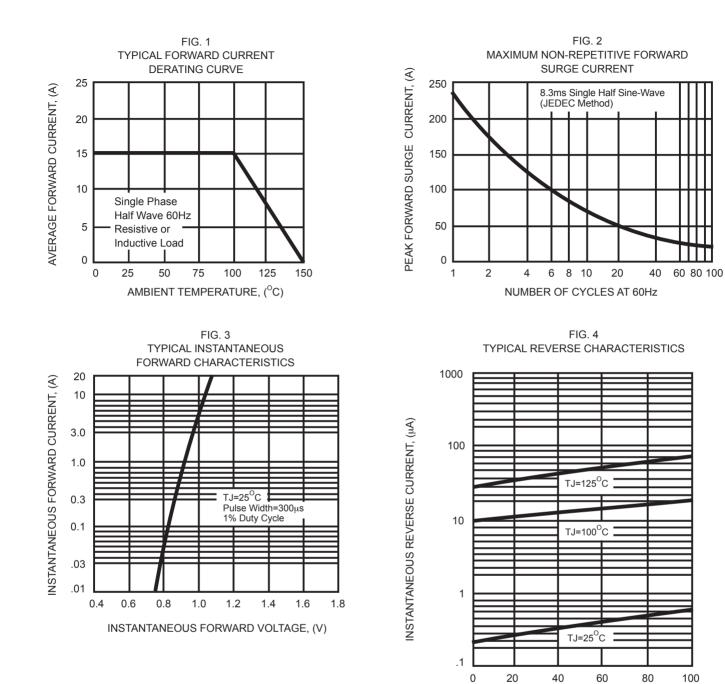


	SYMBOL	GBK15A	GBK15B	GBK15D	GBK15G	GBK15J	GBK15K	GBK15M	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 100°C	lo	15							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	240							Amps
Maximum Instantaneous Forward Voltage at 7.5A DC	VF	1.1						Volts	
Maximum DC Reverse Current at Rated@TJ = 25°CDC Blocking Voltage@TJ = 125°C	IR	10 100							μAmps
Typical Junction Capacitance (Note 1)	CJ	60						рF	
I ² t Rating for Fusing (t<8.3mS)	l ² t	240						A ² s	
Typical Thermal Resistance to case with heatsink (Note 2)	Rejc	0.8						°C/W	
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150							°C

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

2. Device mounted on 300mm*300mm*1.6mm Cu plate heatsink.

RATING AND CHARACTERISTIC CURVES (GBK15A THRU GBK15M)



PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

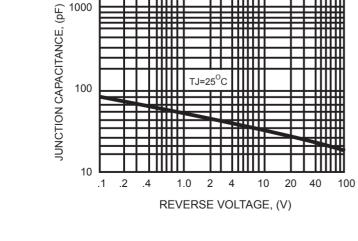


FIG. 5 TYPICAL JUNCTION CAPACITANCE

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