

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

GBK35A THRU GBK35M

TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED BRIDGE RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 35 Amperes

FEATURES

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

MECHANICAL DATA

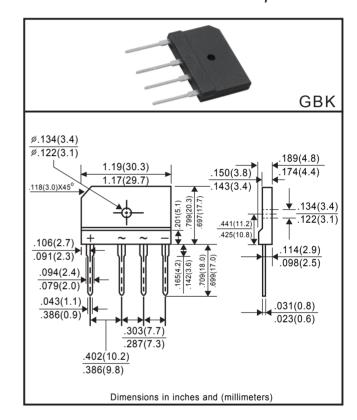
* Case: Molded plastic

* 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	GBK35A	GBK35B	GBK35D	GBK35G	GBK35J	GBK35K	GBK35M	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	35							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	400							Amps
Maximum Instantaneous Forward Voltage at 17.5A DC	VF	1.1						Volts	
Maximum DC Reverse Current at Rated $@TJ = 25^{\circ}C$ DC Blocking Voltage $@TJ = 125^{\circ}C$	- IR	10 100							μ A mps
Typical Junction Capacitance (Note 1)	CJ	85						рF	
I ² t Rating for Fusing (t<8.3mS)	l ² t	664							A ² s
Typical Thermal Resistance to case with heatsink (Note 2)	Rejc	0.6							°C/W
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150							°C

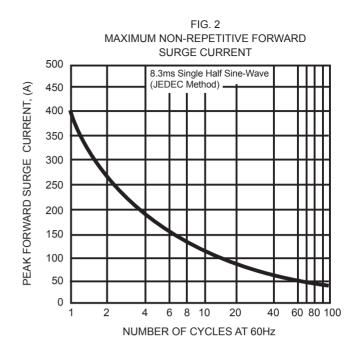
Note 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

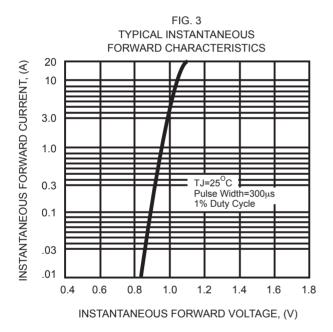
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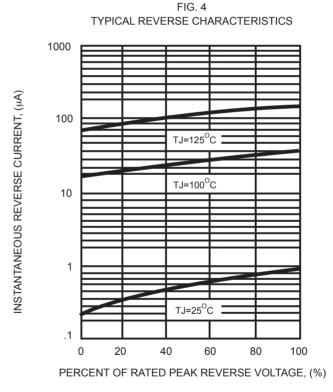
^{2.} Device mounted on 300mm*300mm*1.6mm Cu plate heatsink.

RATING AND CHARACTERISTIC CURVES (GBK35A THRU GBK35M)

FIG. 1 TYPICAL FORWARD CURRENT **DERATING CURVE** AVERAGE FORWARD CURRENT, (A) 30 25 20 15 Single Phase Half Wave 60Hz Resistive or 10 Inductive Load 5 0 0 25 100 125 150 50 75 AMBIENT TEMPERATURE, (°C)







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