KBL4005 THRU KBL410

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 V Forward Current - 4 A

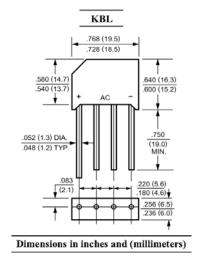
Features

- Ideal for printed circuit board
- Low forward voltage drop
- · Low reverse leakage current
- · High surge current capability
- Surge overload rating: 200 Amperes peak

Mechanical Data

• Case: KBL

• Mounting Position: Any



Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

Parameter	Symbols	KBL4005	KBL401	KBL402	KBL404	KBL406	KBL408	KBL410	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Average Rectified Rectified Current at T _A = 50 °C	I _{F(AV)}	4							Α
Non-repetitive Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	200							А
Maximum Forward Voltage per Leg at 4 A DC	V _F	1.1							V
Maximum Reverse Current at Rated $T_A = 25$ °C DC Blocking Voltage per Leg $T_A = 100$ °C	I _R	10 1							μA mA
Typical Junction Capacitance 1)	C _j	40							pF
Operating Junction Temperature Range	Tj	- 55 to + 125							°C
Storage Temperature Range	T _{stg}	- 55 to + 150							°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V DC



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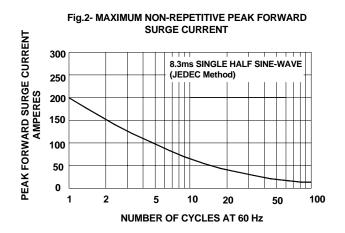


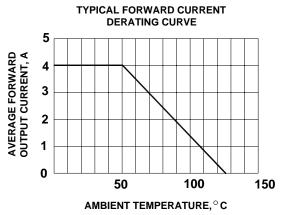


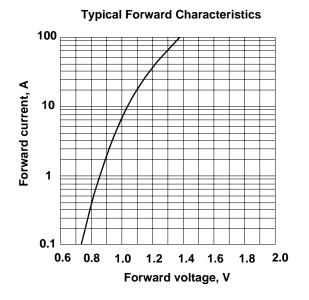


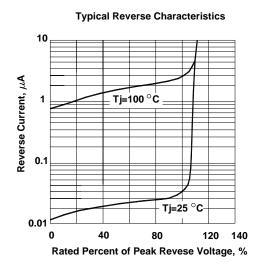


Dated: 02/09/2009











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