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DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

KBL 005 / RS 401 THRU KBL 10 / RS 407

TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts *CURRENT - 4.0 Amperes*

FEATURES

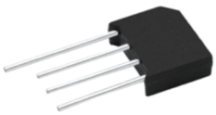
* High forward surge capability
* High capability
* High current capability
* Low forward voltage drop
* Glass passivated junction

MECHANICAL DATA

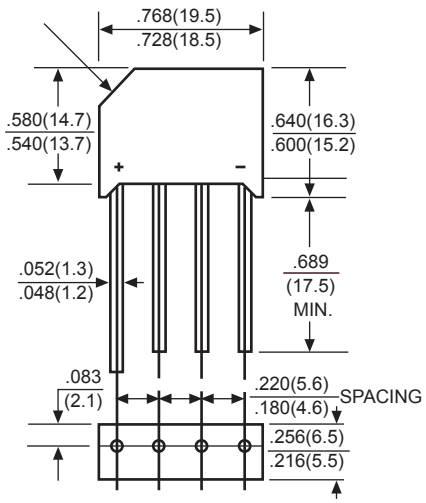
* Case: Molded plastic
* Epoxy: UL 94-V0 rated flame retardant
* Lead: MIL-STD-202E, Method 208 guaranteed
* Polarity: Symbols molded or marked on body
* Mounting position: Any
* Weight: 4.8 grams

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%.



KBL



Dimensions in inches and (millimeters)

		SYMBOL	RS401 KBL005	RS402 KBL01	RS403 KBL02	RS404 KBL04	RS405 KBL06	RS406 KBL08	RS407 KBL10	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T_A = 50°C		I_O	4.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	125							Amps
Maximum Instantaneous Forward Voltage at 4.0A DC		V_F	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TJ = 25°C	I_R	10							μAmps
	@TJ = 125°C		100							
I^2t Rating for Fusing (t<8.3mS)		I^2t	64.8							I^2t
Operating and Storage Temperature Range		T_J,T_{STG}	-55 to +150							°C

RATING AND CHARACTERISTIC CURVES (KBL005 RS401 THRU KBL10 RS407)

FIG. 1
TYPICAL FORWARD CURRENT
DERATING CURVE

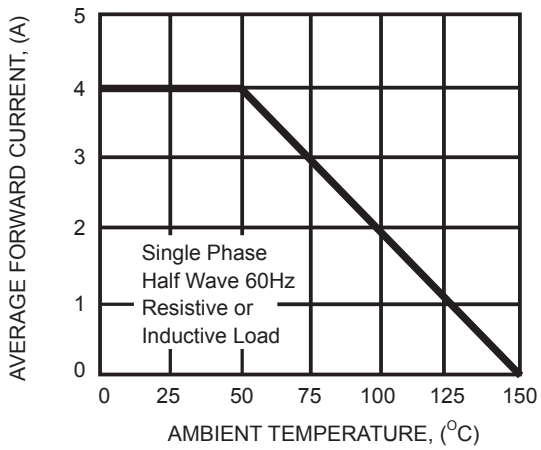


FIG. 2
MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

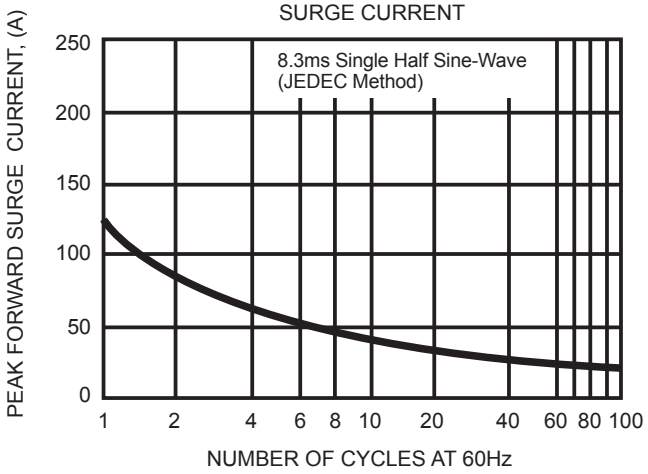


FIG. 3
TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

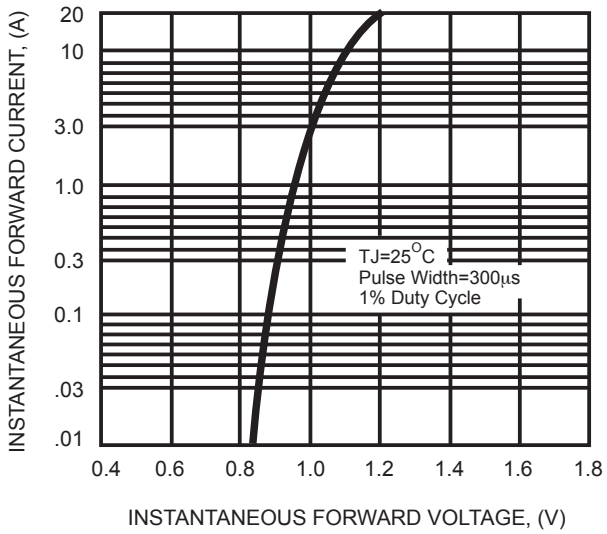
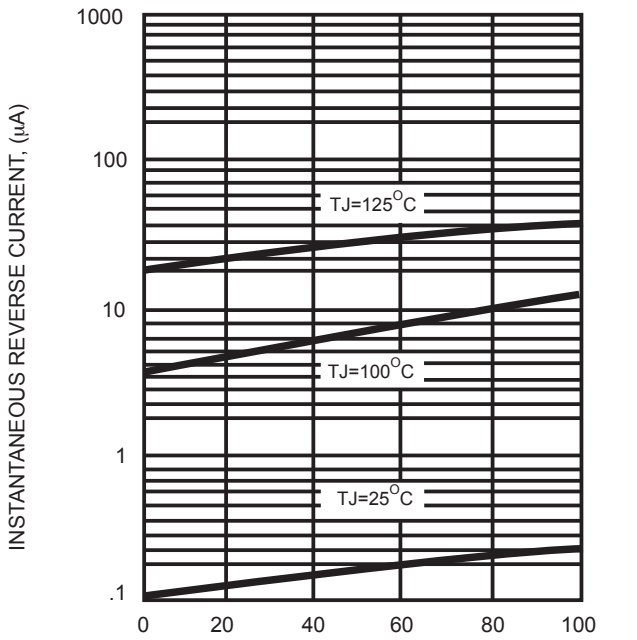


FIG. 4
TYPICAL REVERSE CHARACTERISTICS



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