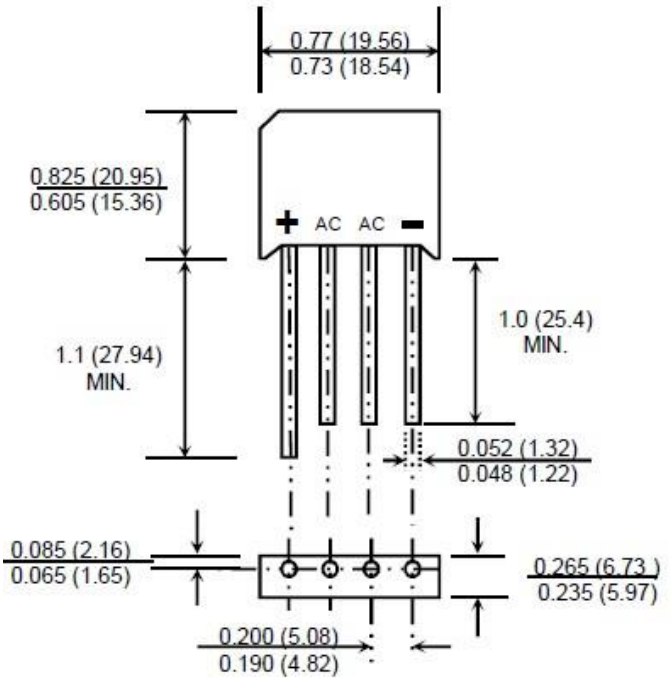
KBL400_10

PRV : 50 - 1000 Volts

Io : 4.0 Amperes

Features

- High case dielectric strength
- High surge current capability
- High reliability
- Low reverse current
- Low forward voltage drop
- Ideal for printed circuit board
- RoHS compliant package



Mechanical Data

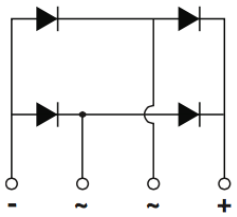
- Epoxy : UL94V-O rate flame retardant
- Terminals : Plated lead solderable per MIL-STD-202,

Method 208 guaranteed

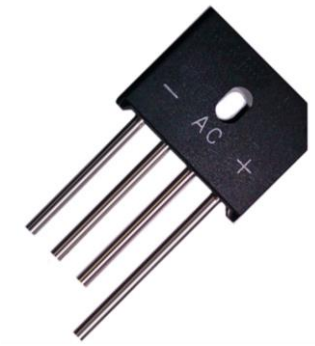
- Polarity : Polarity symbols marked on case
- Mounting position : Any
- Weight : 5.15 grams

Package type：KBP

Graphic symbol



Packing & Order Information



RoHS
COMPLIANT

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Rating	Symbol	KBL 400	KBL 401	KBL 402	KBL 404	KBL 406	KBL 408	KBL 410	Unit
Maximum Recurrent 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

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Rating at 25 °C ambient temperature unless otherwise specifie. Single phase, half wave, 60 Hz, resistive or inductive load For capacitive load, derate current by 20%			
Maximum Average Forward Current Tc = 50°C	$I_{F(AV)}$	4.0	A
Rating for fusing (t < 8.3 ms.)	I^2t	166	A^2S
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	10	°C/W

Rating at 25 °C ambient temperature unless otherwise specifie. Single phase, half wave, 60 Hz, resistive or inductive load For capacitive load, derate current by 20%									
Rating	Symbol	KBL 400	KBL 401	KBL 402	KBL 404	KBL 406	KBL 408	KBL 410	Unit
Peak Forward Surge Current, Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	200							V
Maximum Forward Voltage per Diode at F = 1.0 A	V_F	1.1							V
Maximum DC Reverse Current Ta = 25°C	I_R	10							V
at Rated DC Blocking Voltage Ta = 100°C	$I_{R(H)}$	1.0							A
Operating junction temperature range	T_J	-55 to +150							°C
Storage temperature range	T_{STG}	-55 to +150							°C

Notes

(1) Thermal resistance from Junction to Ambient with units mounted on a 3" X 3" X 0.11" THK (7.5cm X 7.5cm X 0.3cm) Cu. plate.

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■RATING AND CHARACTERISTIC CURVES (KBL400 - KBL410)

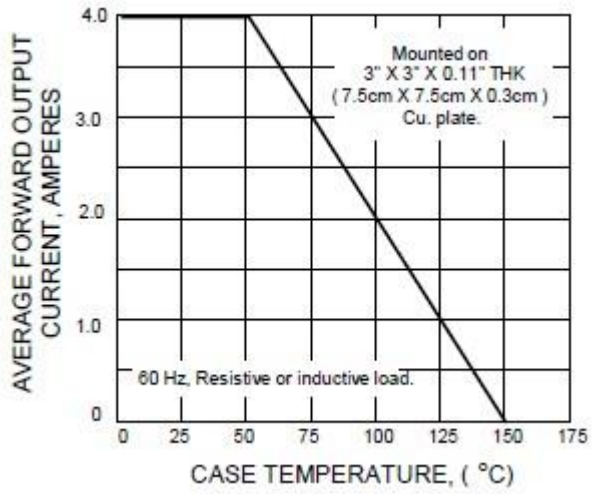

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

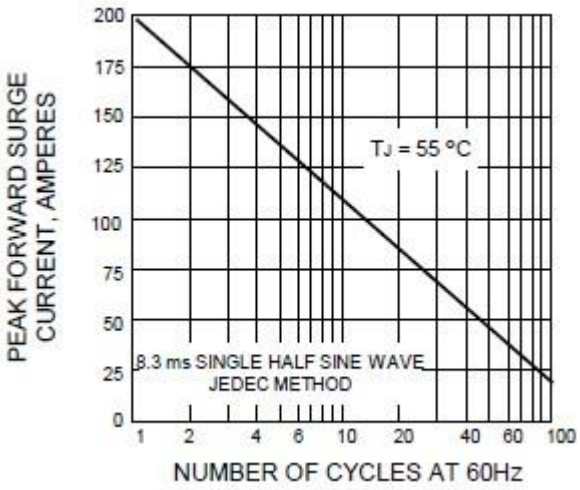

FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

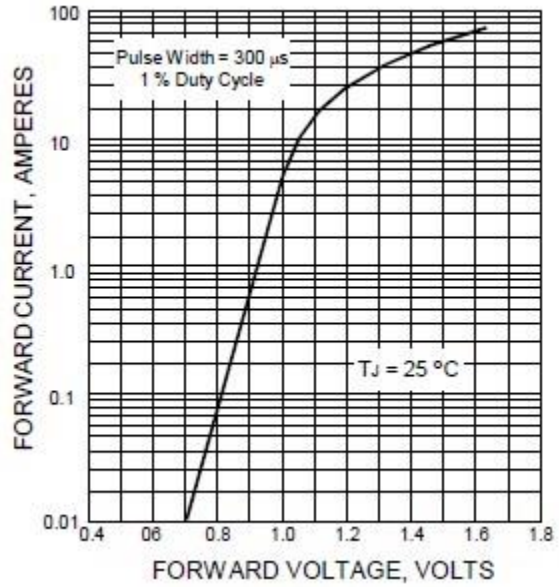

FIG.3 - TYPICAL FORWARD CHARACTERISTICS PER DIODE

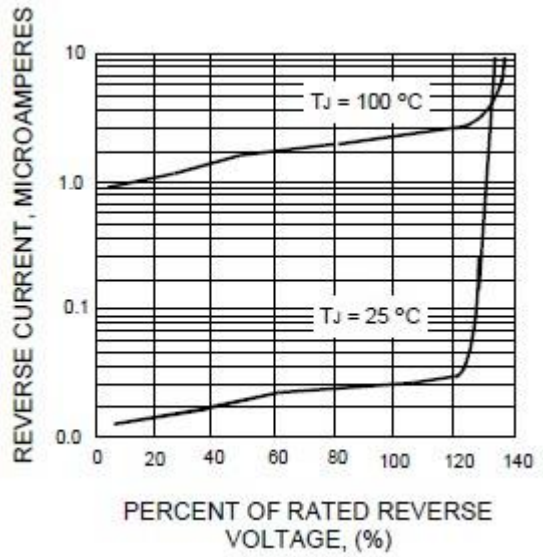

FIG.4 - TYPICAL REVERSE CHARACTERISTICS

KBL400_10

PRV : 50 - 1000 Volts

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