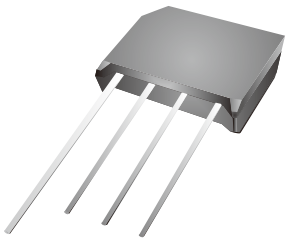
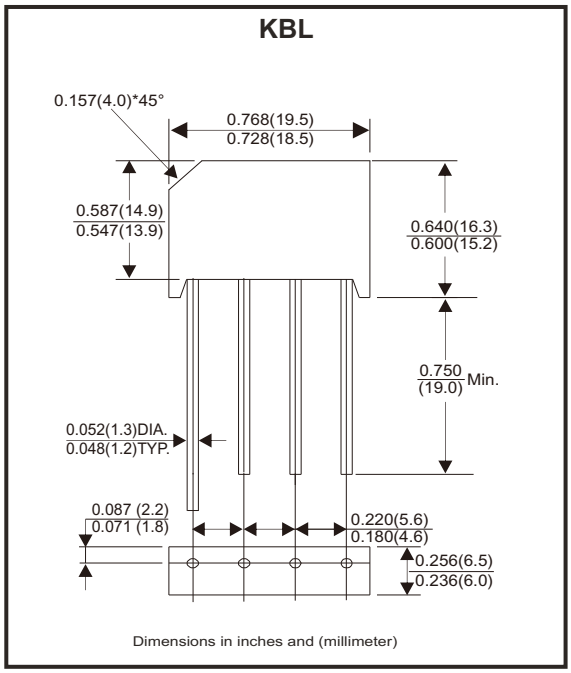
KBL4005-G Thru. KBL410-G

Reverse Voltage: 50 to 1000V
Forward Current: 4.0Amperes
RoHS Device





Features

- -Glass passivated chip
- -Low forward voltage drop
- -Ideal for printed circuit board
- -High surge current capability
- -UL recognized file # E349301

Mechanical Data

- -Polarity: Symbol marked on body
- -Mounting position: Any

Maximum ratings and electrical characteristics

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

Parameter	Symbol	KBL 4005-G	KBL 401-G	KBL 402-G	KBL 404-G	KBL 406-G	KBL 408-G	KBL 410-G	Unit
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
Maximum Average Forward Rectified Current @ T_A=50°C (Note 1)	$I_{(AV)}$	4.0							A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave, Super Imposed On Rated Load (JEDEC Method)	I_{FSM}	125							A
I^2t Rating for Fusing (t<8.3mS)	I^2t	64.8							A^2s
Peak Forward Voltage per Diode at 4.0A DC	V_F	1.1							V
Maximum DC Reverse Current at Rated @T_J=25°C	I_R	10.0							μA
DC Blocking Voltage per Diode @T_J=150°C		1.0							mA
Operating Junction Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

Notes:
1. Mounting conditions, 0.5" lead length maximum.

Company reserves the right to improve product design , functions and reliability without notice.

Rating and Characteristics Curves (KBL4005-G Thru. KBL410-G)

Fig.1 - Forward Current Derating Curve

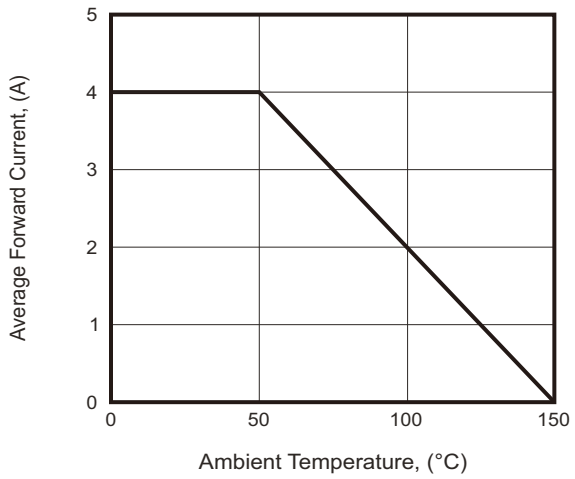


Fig.2 - Maximum Non-Repetitive Surge Current

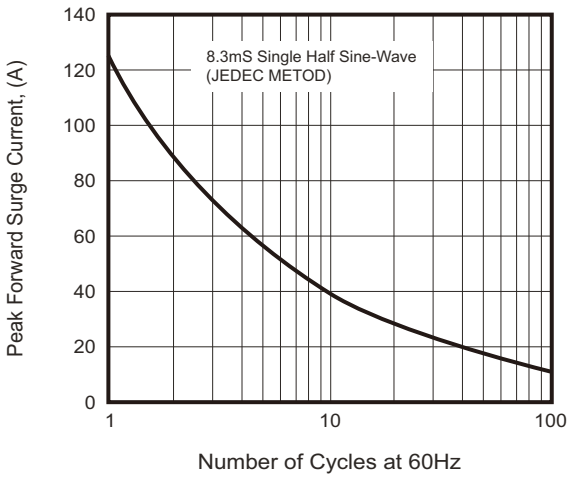


Fig.3 - Typical Reverse Characteristics

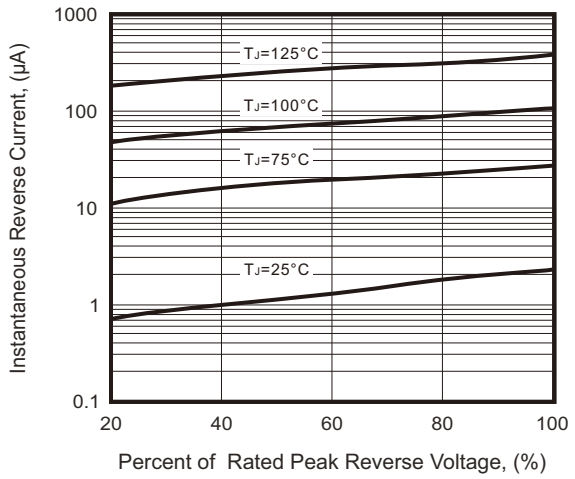
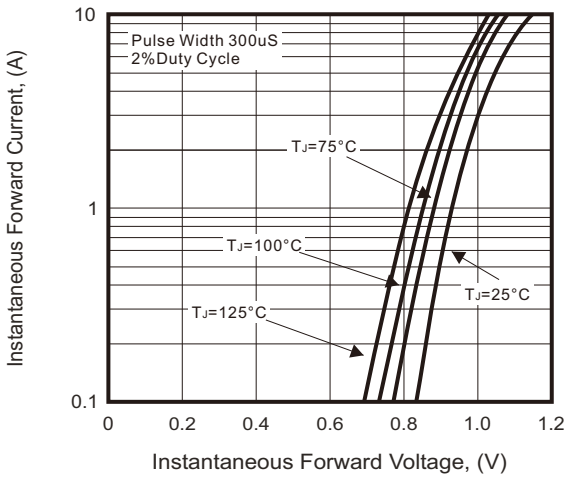
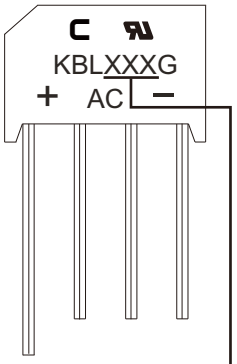


Fig.4 - Typical Forward Characteristics



Marking Code

Part Number	Marking code
KBL4005-G	KBL005G
KBL401-G	KBL01G
KBL402-G	KBL02G
KBL404-G	KBL04G
KBL406-G	KBL06G
KBL408-G	KBL08G
KBL410-G	KBL10G



XX / XXX = Product type marking code

⊂ = Compchip Logo

Standard Packaging

Case Type	BULK PACK	
	BOX (pcs)	CARTON (pcs)
KBL	500	3,000