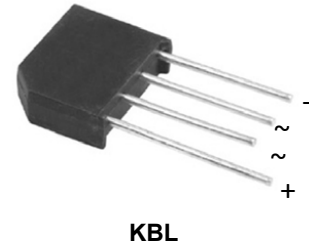


GSKBL01 thru GSKBL10

Bridge Rectifiers
Voltage Range 100V to 1000V Forward Current 4A

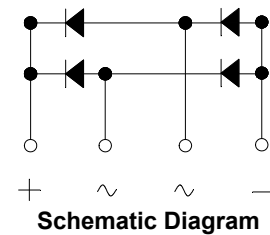
Features

- Plastic package has underwriters laboratory flammability classification 94V-0
- Glass passivated chip junction
- Rating to 1000V PRV
- Ideal for printed circuit board
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
Component in accordance to RoHS 2011/65/EU



Mechanical Data

Case: KBL molded plastic body
Terminals: Plated leads solderable per MIL-STD-750, method 2026
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%.)

Parameters	Symbols	GSKBL 01	GSKBL 02	GSKBL 04	GSKBL 06	GSKBL 08	GSKBL 10	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	$I_{(AV)}$	4.0						A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	120						A
Rating for Fusing ($t < 8.3ms$)	I^2t	59.8						A ² s
Maximum Instantaneous Forward Voltage at 4.0A DC	V_F	1.05						V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	5						μA
		100						μA
Typical Thermal Resistance, Junction-Ambient ¹	$R_{\theta JA}$	13						°C/W
Operating Temperature Range	T_J	-55 to +150						°C
Storage Temperature Range	T_{STG}	-55 to +150						°C

Notes:

1. Thermal resistance junction to ambient with units mounted on 3.0*3.0*0.11" thick aluminum plate.

Ratings and Characteristics Curves

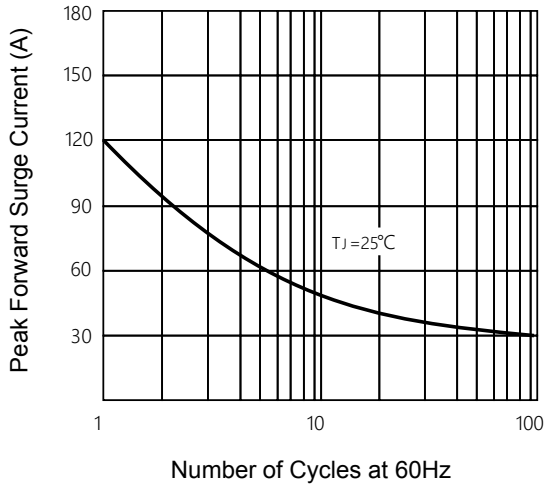


Figure 1. Maximum Forward Surge Current

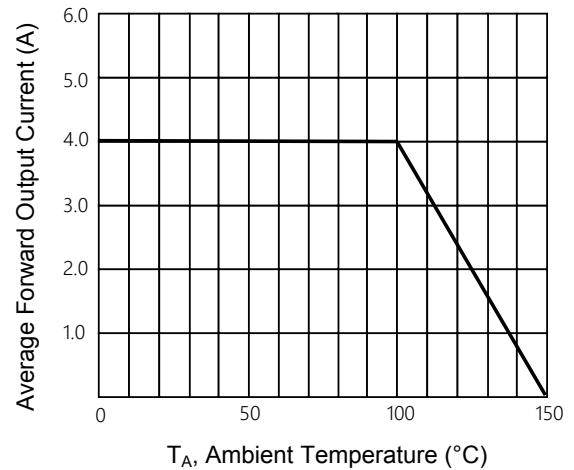


Figure 2. Derating Curve Output Rectified Current

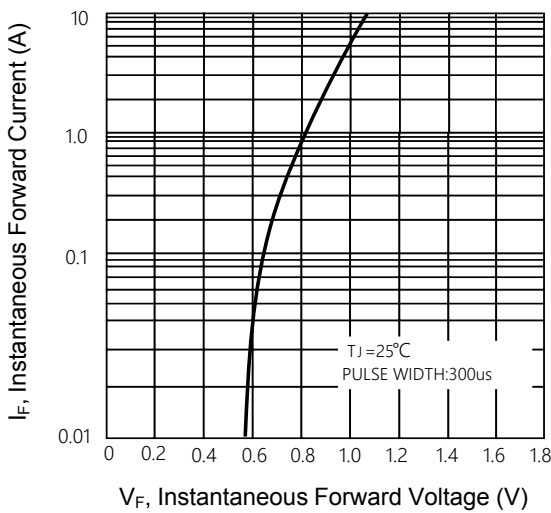


Figure 3. Typical Forward Characteristics

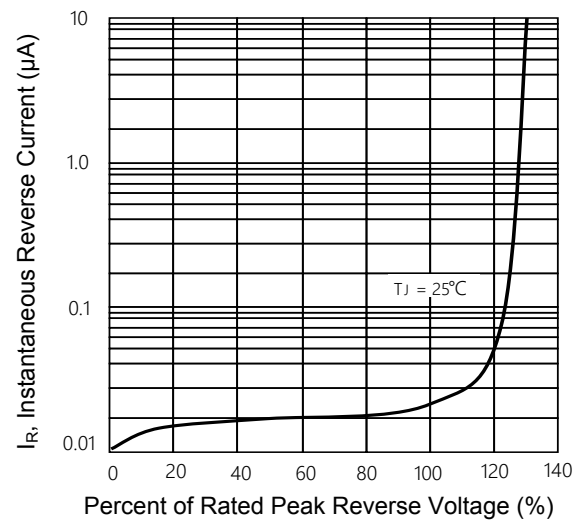
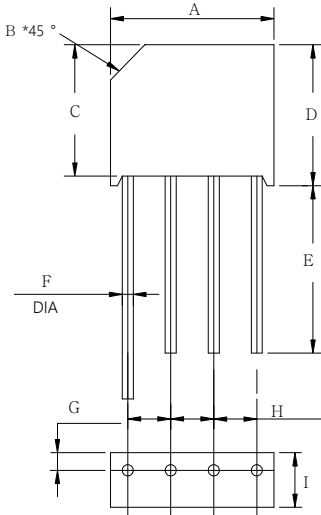


Figure 4. Typical Reverse Characteristics

Package Outline Dimensions (KBL)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	18.50	19.50	0.728	0.768
B	4.00 REF		0.157 REF	
C	13.70	15.70	0.540	0.618
D	15.20	16.30	0.600	0.640
E	16.00	-	0.630	-
F	1.20	1.30	0.048	0.052
G	1.80	2.20	0.071	0.087
H	4.60	5.60	0.180	0.220
I	5.50	6.50	0.217	0.256

Order Information

Device	Package	Marking	Carrier	Quantity
GSKBL01	KBL	KBL401	Box	500pcs / Box
GSKBL02	KBL	KBL402	Box	500pcs / Box
GSKBL04	KBL	KBL404	Box	500pcs / Box
GSKBL06	KBL	KBL406	Box	500pcs / Box
GSKBL08	KBL	KBL408	Box	500pcs / Box
GSKBL10	KBL	KBL410	Box	500pcs / Box