

# KBL4/6005-KBL4/610

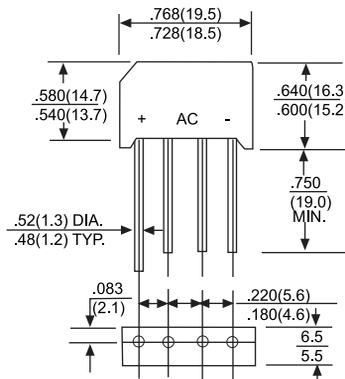
## SINGLE PHASE 4.0/6.0 AMPS. SILICON BRIDGE RECTIFIERS



### FEATURES

- UL Recognized File # E-230084
- Surge overload rating - 200 amperes peak
- Ideal for printed circuit board
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- Mounting Position:Any

**Voltage Range**  
50 to 1000 Volts  
**Current**  
4.0/6.0 Amperes



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 50Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

Type Number		KBL6005	KBL601	KBL602	KBL604	KBL606	KBL608	KBL610	UNITS	
		RS401L	RS402L	RS403L	RS404L	RS405L	RS406L	RS407L		
		KBL4005	KBL401	KBL402	KBL404	KBL406	KBL408	KBL410		
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V	
Maximum RMS Bridge Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V	
Maximum Average Forward Current @ TA=50°C TA (Note 1)	KBL4 KBL6 I <sub>F(AV)</sub>					4.0 6.0				A
Peak Forward Surge Current, 8.3ms single half sine-wave super imposed on rated load	KBL4 KBL6 I <sub>FSM</sub>					150 200				A
Maximum DC Reverse Voltage Drop Per Leg	KBL4@4.0A KBL6@6.0A V <sub>F</sub>					1.0 1.05				V
Maximum Reverse Current at Rated DC Blocking Voltage	TA=25°C TA=100°C I <sub>R</sub>					10.0 500				µA
Operating and Storage Temperature Range TA	T <sub>J</sub> , T <sub>STG</sub>					-55 to +150			°C	

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

# RATING AND CHARACTERISTIC CURVES KBL4/RS4L/KBL6 SERIES

FIG.1 - MAXIMUM FORWARD SURGE CURRENT

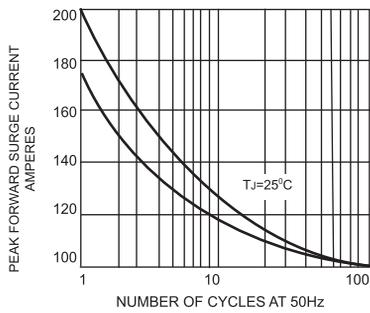


FIG.2 - DERATING CURVE  
OUTPUT RECTIFIED CURRENT

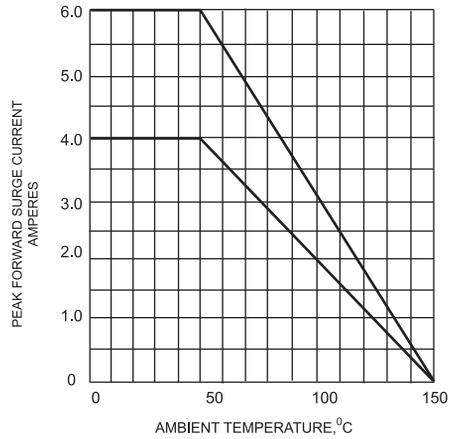


FIG.3 - TYPICAL FORWARD  
CHARACTERISTICS

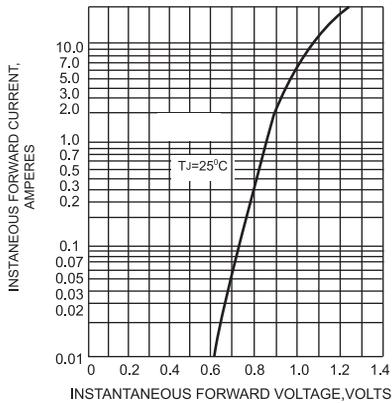


FIG.4 - TYPICAL REVERSE  
CHARACTERISTICS

