



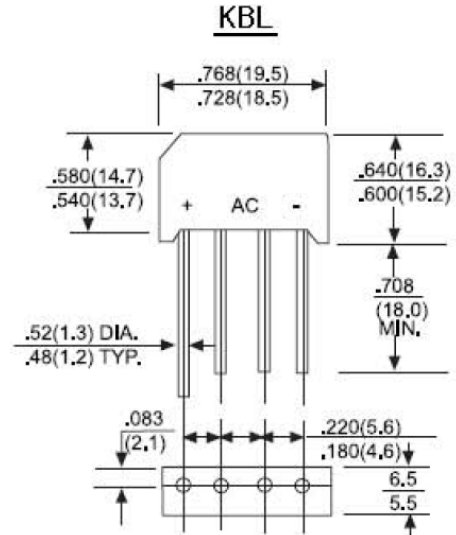
Miniature Glass Passivated Single-Phase Bridge Rectifiers  
Reverse Voltage 50 to 1000 Volta , Forward Current 6.0 Ampere

**Features**

- ◆ Ideal for printed circuit board
- ◆ Glass passivated chip junctions
- ◆ High surge overload rating; 200A peak
- ◆ High case dielectric strength
- ◆ Solder DIP 260°C , 40 seconds

**Mechanical Data**

- ◆ Case: KBL  
Epoxy meets UL-94V-0 Flammability rating
- ◆ Terminals: Silver plated (E4 Suffix) Leads, solderable per J-STD-002B and JESD22-B102D
- ◆ Polarity : As marked on body



**Maximum Ratings and Electrical Characteristics**

(T =25°C unless otherwise noted)

Parameter	Symbols	KBL 6005	KBL 601	KBL 602	KBL 604	KBL 606	KBL 608	KBL 6010	Units
Maximum repetitive 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 output current at $T_A=50^{\circ}C$ (Note 1)	$I_{F(AV)}$	6.0							Amps
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	$I_{FSM}$	200							Amps
Max. instantaneous forward voltage drop per element (Test conditions 6 A)	$V_F$	1.1							Volts
Maximum DC reverse current $T_A=25^{\circ}C$ at rated DC blocking voltage per element $T_A=100^{\circ}C$	$I_R$	5.0 100							$\mu A$
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to +150							$^{\circ}C$

Notes: 1 , Mounting Conditions 0.5" Lead Length maximum



# KBL6005 ~ KBL610

FIG.1 - MAXIMUM FORWARD SURGE CURRENT

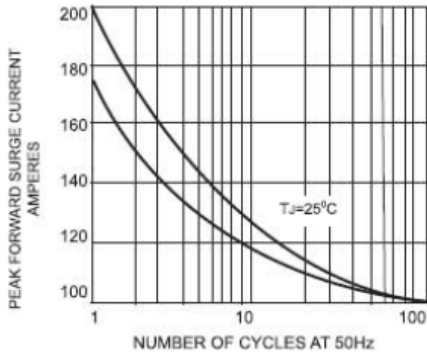


FIG.2 - DERATING CURVE  
OUTPUT RECTIFIED CURRENT

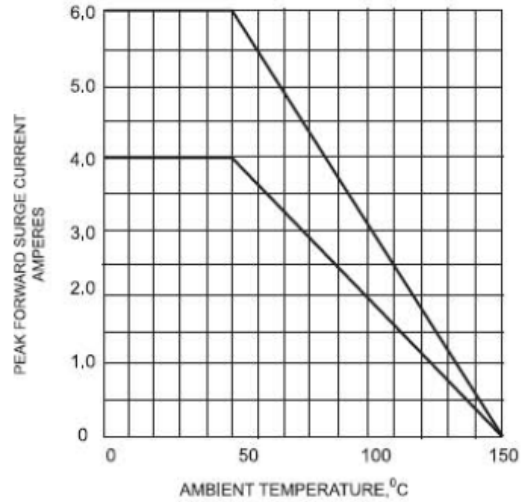


FIG.3 - TYPICAL FORWARD  
CHARACTERISTICS

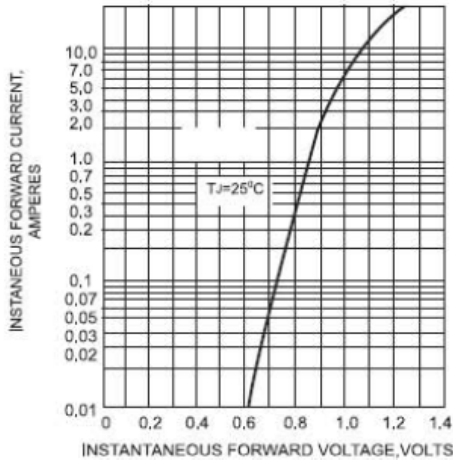


FIG.4 - TYPICAL REVERSE  
CHARACTERISTICS

