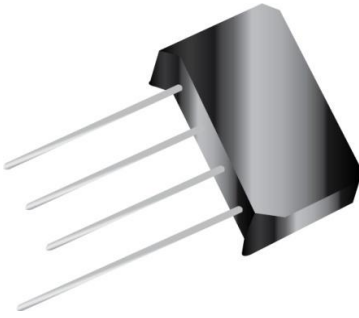




Glass Passivated Bridge Rectifier



KBL

Primary Characteristics		
I_F	4	A
V_{RRM}	50~1000	V
I_{FSM}	120	A
V_F	1.05	V
$T_J \text{ max}$	150	°C

Features

- Glass passivated chip
- High surge forward current capability

Applications

- General purpose 1 phase Bridge rectifier applications

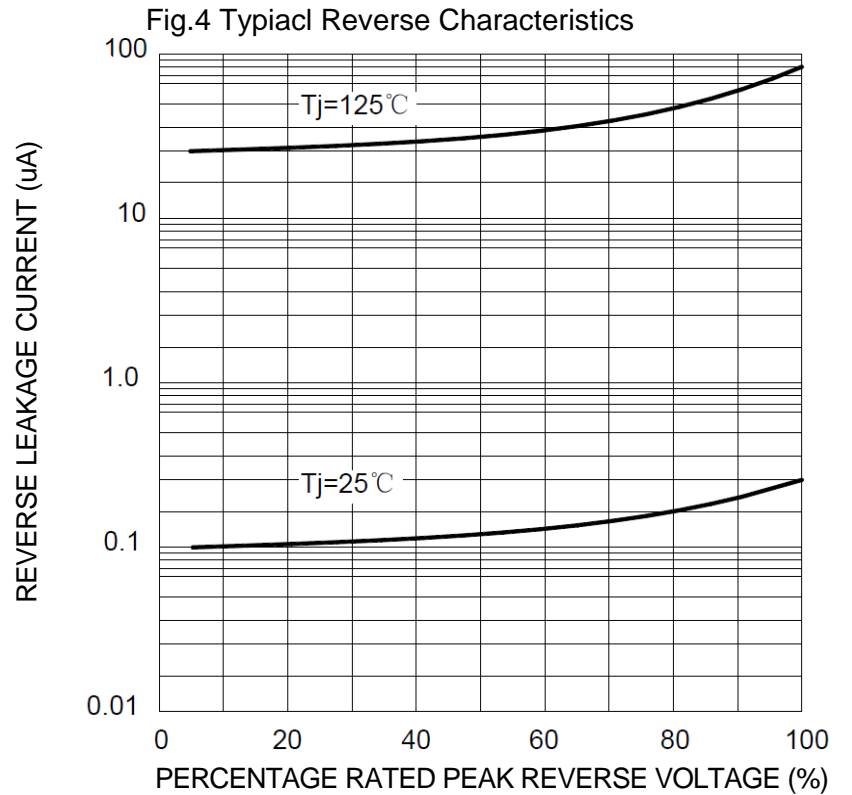
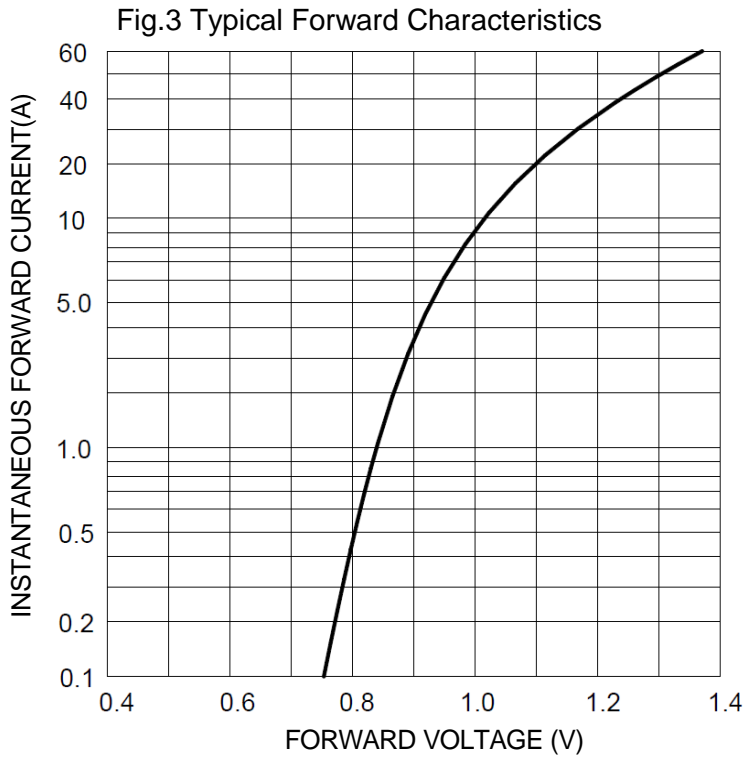
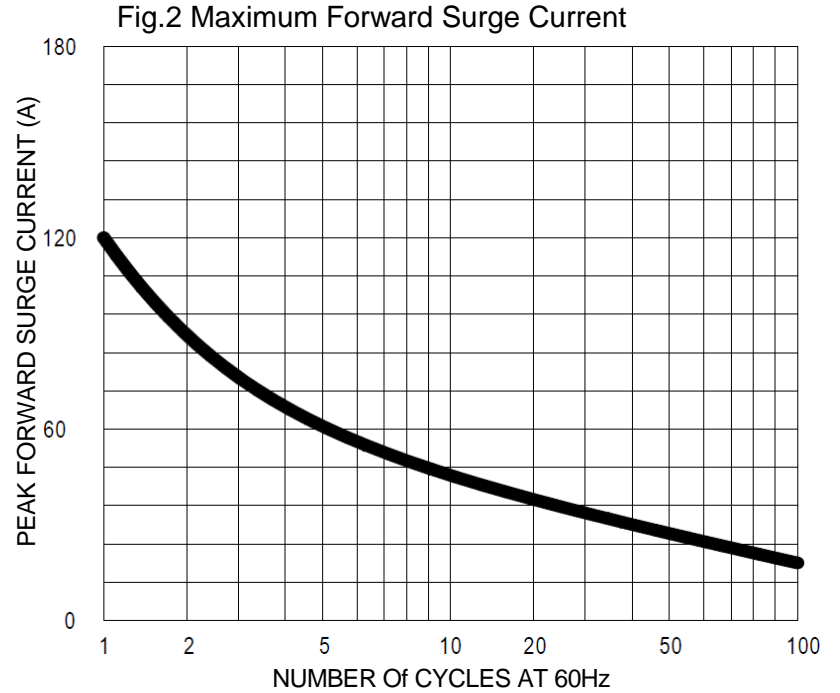
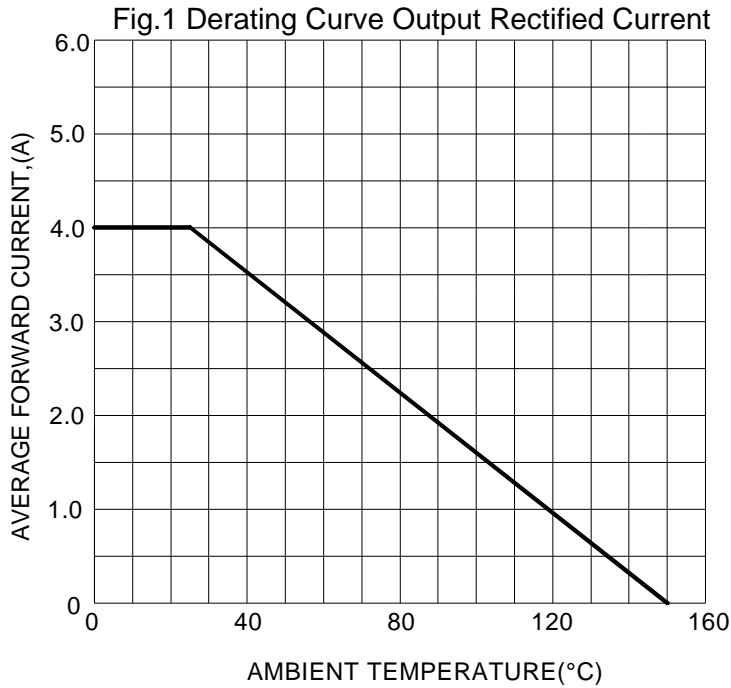
Maximum Ratings (TA=25°C unless otherwise noted)									
Parameter	Symbol	KBL 4005	KBL 401	KBL 402	KBL 404	KBL 406	KBL 408	KBL 410	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	
Maximum Average Forward Rectified Current Ta=25°C	I_F	4.0							A
Maximum Instantaneous Forward Voltage @ 4.0A	V_F	1.1							V
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	120.0							A
Maximum DC Reverse Current	I_R	10.0							uA
I ² t Rating for Fusing (t<8.3ms)	I^2t	93.0							A ² S
Typical Thermal Resistance	$R_{\theta JL}$	2.4							°C/W
Junction Temperature	T_J	-55 to +150							°C
Storage Temperature	T_{STG}	-55 to +150							°C

Notes:

1. Thermal resistance from junction to lead with units mounted on P.C.B. at 0.375" (9.5mm) lead length and 0.5*0.5" (12*12mm)

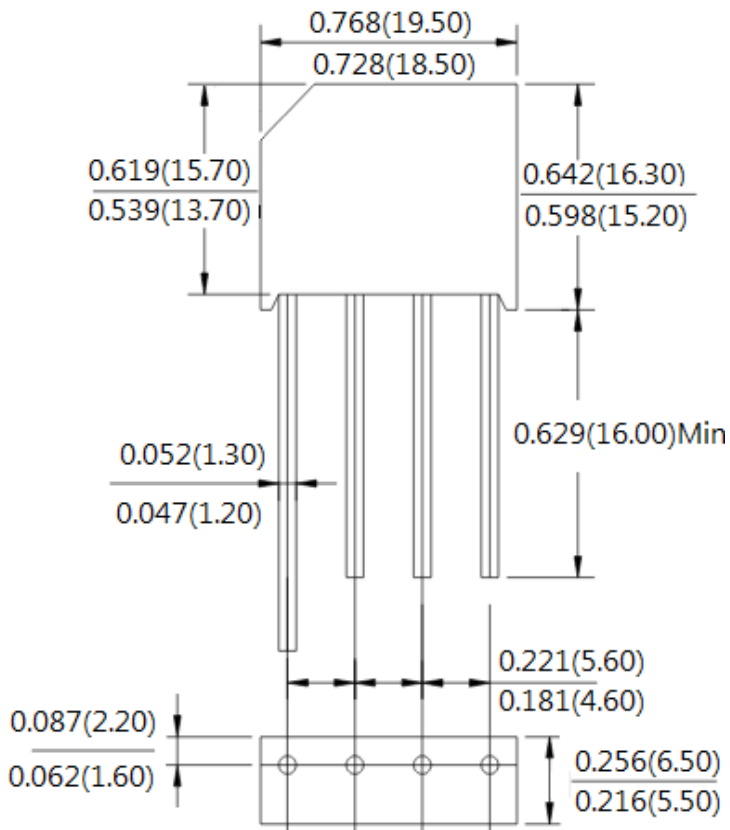


Rating and Characteristics Curvers





Package Outline Dimensions



KBL

Dimensions in inches and (millimeters)