Bridge Rectifier

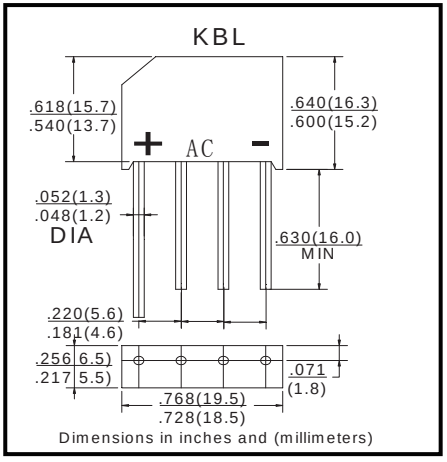
■ Features

- I_o 4A
- V_{RRM} 50V~1000V
- Glass passivated chip
- High surge forward current capability

■ Applications

- General purpose 1 phase Bridge rectifier applications

■ Outline Dimensions and Mark



■ Limiting Values（Absolute Maximum Rating）

Item	Symbol	Unit	Conditions	KBL4						
				005	01	02	04	06	08	10
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	400	600	800	1000
Average Rectified Output Current	I_O	A	60Hz sine wave, R- load, T_a=40℃	4						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz sine wave, 1 cycle, T_a=25℃	150						
Current Squared Time	I^2t	A^2s	1ms≤t＜8.3ms T_j=25℃,Rating of per diode	93						
Storage Temperature	T_{STG}	℃		-55 ~+150						
Junction Temperature	T_J	℃		-55 ~+150						

■ Electrical Characteristics（T_a=25℃ Unless otherwise specified）

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	I_{FM}=4A, Pulse measurement, Rating of per diode	1.05
Peak Reverse Current	I_{RRM}	μA	V_{RM}=V_{RRM} , Pulse measurement, Rating of per diode	10
Thermal Resistance	$R_{\theta J-A}$	℃/W	Between junction and ambient	13(1)
	$R_{\theta J-L}$		Between junction and lead	2.4(2)

（Notes）:

（1）Thermal resistance from junction to ambient with units mounted on 3.0*3.0*0.11" thick(7 5*7.5*0 3cm) aluminum plate

（2）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) copper pads

RATINGS AND CHARACTERISTIC CURVES

(T_A = 25°C unless otherwise noted)

FIG1:Io-Ta Curve

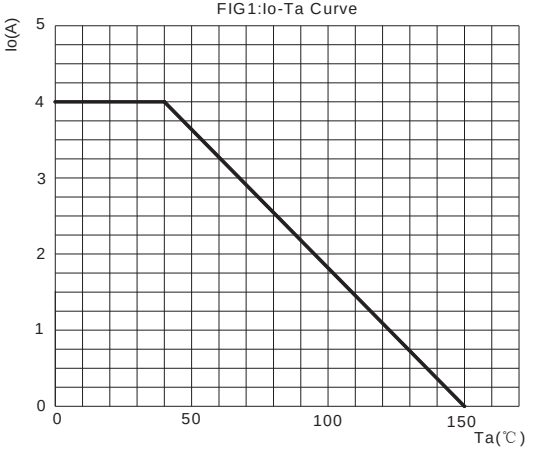


FIG2:Surge Forward Current Capadility

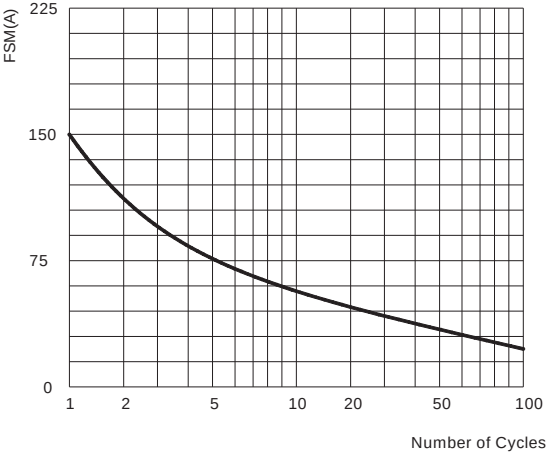


FIG3:Instantaneous Forward Voltage

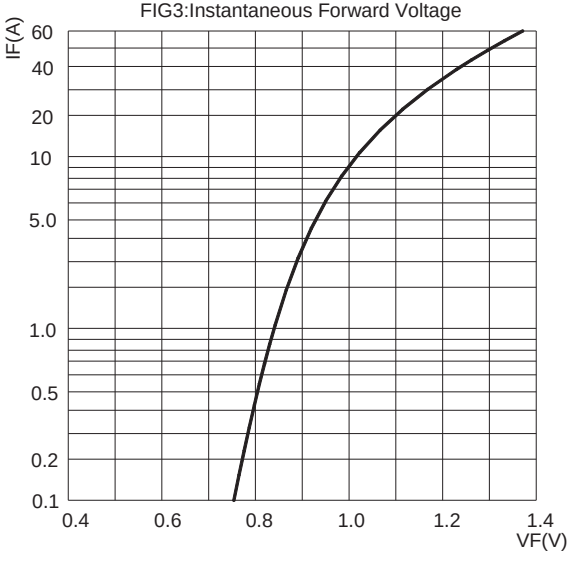


FIG4:Typical Reverse Characteristics